CITY OF BATON ROUGE PARISH OF EAST BATON ROUGE DEPARTMENT OF ENVIRONMENTAL SERVICES

March 31, 2023

ADDENDUM NO. 1

TO: ALL BIDDERS

SUBJECT: SULLIVAN ROAD (WAX-HOOPER) SEWER SANITARY SEWER

IMPROVEMENTS PROJECT

CITY-PARISH PROJECT NO. H.002320

ORIGINAL BID DATE: Wednesday, April 5th, 2023 at 2:00 PM CURRENT BID DATE: Wednesday, April 12th, 2023 at 2:00 PM

The following revisions shall be incorporated in and take precedence over any conflicting part of the original contract document:

PART 1 – UNIFORM CONSTRUCTION BID FORMS:

- 1. For paper sealed bidders, with reference to page UCBF 1 of 4 of Part 1, Uniform Construction Bid Forms, the Bidder shall indicate the receipt of this addendum in the space provided. For online Central Bidding bidders, an acknowledgement of this addendum will be prompted by the electronic bidding program prior to formally submitting the bid. Failure to indicate the receipt of this addendum shall be cause for the bid to be rejected.
- 2. Acting in accordance with Louisiana Revised Statutes 38:2212, (C) (1), the bid opening date is postponed by seven (7) calendar days. **Bids will be opened at 2:00 PM Friday, April 12, 2023 in Room 806 of City Hall**, in lieu of April 12, 2023.

PART 2 - SPECIAL PROVISIONS AND CONTRACT DOCUMENTS:

- 1. For paper sealed bidders, with reference to page UCBF 1 of 4 of Part 1, Uniform Construction Bid Forms, the Bidder shall indicate the receipt of this addendum in the space provided. For online Central Bidding bidders, an acknowledgement of this addendum will be prompted by the electronic bidding program prior to formally submitting the bid. Failure to indicate the receipt of this addendum shall be cause for the bid to be rejected.
- 2. Acting in accordance with Louisiana Revised Statutes 38:2212, (C) (1), the bid opening date is postponed by seven (7) calendar days. **Bids will be opened at 2:00 PM Friday, April 12, 2023 in Room 806 of City Hall**, in lieu of April 12, 2023.

SPECIAL PROVISIONS

1. Section 2-8.1: Insert the following after the second sentence:

The bid forms may also be submitted electronically via the Central Bidding software as a substitute to being submitted in a separate envelope or in the sealed bid envelope.

COMMENTS & QUESTIONS:

As a point of clarification:

- 1. The DOTD permit acquired by the Owner has been attached to this Addendum. The allowable closure times and restrictions are as follows:
 - Contractor shall provide the Engineer a 7 calendar day notice, prior to any lane, ramp, or other roadway component closure. Contractor shall provide the Engineer a 14 day calendar notice, prior to any full closure. A late opening rental will be charged to the Contractor for any unauthorized closure or closure that extends beyond the allowed closure times.
 - Lane closures are only allowed Monday-Friday from 9 A.M. to 2 P.M., and Saturdays from 8 A.M. to 6 P.M.
 - Full roadway closures are only allowed on Weekends, from Saturday at 8 A.M. to Monday at 5 A.M.
 - When requesting a full roadway closure, Contractor shall only be allowed to install two pipe crossings per day.
 - Prior to completing asphalt patching of newly installed pipe crossing, contractor shall place an approved Type A Backfill from pipe to 2" above existing roadway and allow live traffic to compact backfill for seven calendar days; after which, contractor shall remove top 1.0' of Type A backfill and replace with approved asphalt patching material 1" higher than existing roadway.
- 2. Can you clarify the limits of the alternate bid vs. the base bid?

The additive alternate consists of all the gravity sewer piping and manholes that tie into the grinder pump station system that is being installed on this project. The alternate also includes the sewer force main that discharges into SSMH A-11, and the duplex grinder pump station system. On the plans, all of the work from Station 190+77.24 to station 205+20, excluding SSMH A-11, is included in the alternate. All work beyond station 205+20 is considered the base bid.

3. All other questions received will be reviewed and addressed in a second addendum at a later date.

APPROVED:

Rickey Bracielle College

Three (3) copies of the drawings must accompany the utility permit application.

When applicable, the following supplements are also required and shall become a part of this permit: Bridge Attachment, Pipe Data Sheet or Certification for Permit Lighting.

PERMI	T NUM	IBER	610363	317
CONTROL _	255	_ SE	CTION	30

ENTERED IN COMPUTER FILE

INITIAL AND DATE

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

UTILITY PERMIT

(Required by State Law) Rev 2/22

A copy of this permit shall be available at the site where and when work is performed

A copy of this permit shall be	e available at the site	e where and when work is perio	nicu.
Whereas East Baton Rouge Sewerage Com	mision (EBROS		
	•	** /	LA 0004(Sulling D4)
hereinafter termed applicant, requests a permit for the use and	d occupancy of the right	ht-of-way of State Highway No.	LA-3034 (Sullivan Rd.)
in East Baton Rouge Parish, located as follows:			
from: Hooper Road .12 miles north of LA 3034	(Wax Rd.)	Lat: 30.5542	Long: -91.0369
to: Wax Road .81 miles north		Lat: 30.5431	Long: -91.02866
		(in Decimal	Degrees, e.g. Lat:-30.459, Long: -91.178)
for the installation, operation, and maintenance of the following	ng described project (please summarize and use addition	onal sheets as necessary):
Installation of the sanitary sewer system for City Parish including 4 trenched crossings of Sullivan road, as well	Project No. H.0023 as 650 feet of force	20. Consists of approx. 7500 main and a small pump statio	linear feet of gravity main, n.
Estimated number of times this facility will be accessed each	vear after construction	n has been completed including t	meter readings: 12
By signing this permit, applicant/permitee hereby acknow Standards for the Installation of Pipelines on State Highw	ledges receiving a co	py of the permit, the general co	onditions and standards, the
State Highways, and agrees to comply with all provisions	contained therein an	d all applicable laws, rules and	regulations.
		, , , , , , , , , , , , , , , , , , ,	
DOTD USE ONLY: Permit is subject to the following conditions (use additional si	heets as necessary).		
2 of the 10 subject to the following conditions (use additional s	neets as neecssary).		
Please see attached Permit Review Form.			
RECOMMENDED FOR APPROVAL			
(Check box if review required)		Permit must be signed by the ov	wner or lessee of the property.
Millionateur 3/14/2023		Contractor may NOT acquire p	
☐ District Permit Specialist / Date	(Signed)		elelle 3/9/23
	(Printed or Typed)	(Owner) C Rickey Brouillette	(Date)
☐ District Traffic Operation Engineer / Date	(rimed or Typed)	(Name of Person Signing Permi	
		Chief of Engineering & Tech (Title)	nology - Wastewater
District Administrator (or Designee) / Date Print Name Cedric LaCour		222 Saint Louis Street, 8th F	Floor Room 809
		(Street or P.O. Box)	
Applicant must notify District Permit Specialist at phone number:225.231.4164		Baton Rouge (City or Town)	LA 70802 (State) (Zip Code)
prior to beginning work and after work is completed.		225-389-5623 ext 5742	(State) (Zip Code)
Final inspection and approval by:		(Telephone Number)	
Final hispection and approval by:		rpbrouillette@brla.gov (E-mail Address)	
		, , , , , , , , , , , , , , , , , , , ,	
Issue Date: 3/14/2023		DOTD APPROVAL:	
		Q Q	44
Installation to be completed by: 9/14/2023		Handquart o Disks of We D	3-15-202
(Date)		Headquarters Right-of-Way Per District Administrator (or Desig	
		Print Name	States

HEADQUARTERS (original)

pc: DISTRICT

pc: PERMITTEE Page 1 of 4 The following general conditions and standards shall apply:

FIRST: That, the rights and privileges granted herein shall be nonexclusive and shall not be construed to be any broader than those expressly set out in Acts of the Legislature of the State of Louisiana, regardless of the language used in this permit and that any facilities placed on the highway right-of-way shall be placed in accordance with existing laws and the standards of the Department.

SECOND: That, all facilities thereto, after having been erected, shall at all times be subject to inspection and the right is reserved to require such changes, additions, repairs, relocations and removal as may at any time be considered necessary to permit the relocation, reconstruction, widening and maintaining of the highway and to provide proper and safe protection to life and property on or adjacent to the highway, or in the interest of safety to traffic on the highway and that the cost of making such changes, additions, repairs and relocations shall be borne by the applicant, and that all of the cost of the work to be accomplished under this permit shall be borne by the permittee who agrees to hold the Department harmless therefore.

THIRD: That, the proposed facilities or their operation or their maintenance shall not unreasonably interfere with the facilities or the operation or maintenance of the facilities of other persons, firms or corporations previously issued permits of use and occupancy, and the proposed facilities shall not be dangerous to persons or property using or occupying the highway or using facilities constructed under previously granted permits of use and occupancy; and that the Department's records of prior permits are available, it being the duty of the applicant to determine the existence and location of all facilities within the highway right of way.

FOURTH: That, installations within the highway right-of-way shall be in accordance with applicable provisions contained in the following: AASHTO Guide for Accommodating Utilities within Highway Right of Way, Code of Federal Regulations 23 (CFR 23), National Electrical Safety Code C2, 1996 Federal Telecommunications Act. Those facilities not included in the above mentioned documents shall be in accordance with accepted practice. Where standards of the Department exceed those of the above cited codes, the standards of the Department shall apply. The Department reserves the right to modify its policies as may be required if conditions warrant.

FIFTH: That, data relative to the proposed location, relocation and design of fixtures or appurtenances as may be required by the Department shall be furnished to the Department by the applicant free of cost, and that the applicant shall make any and all changes or additions necessary to make the proposed facilities thereto satisfactory to the Department.

SIXTH: That, cutting and trimming of trees, shrubs, etc., shall be in accordance with the Department's EDSM IV 2.1.6 and Vegetation Manual, as revised.

SEVENTH: The applicant shall indemnify and save harmless the Department, its officers, agents, employees, contractors and assigns against any and all costs, expenses, claims, losses, liabilities, demands, suits, causes of action, damages, and judgments of any sums of money to any party accruing against the Department, its officers, agents, employees, contractors and assigns, growing out of, resulting from, or by reason of the presence or operation of the proposed facilities or any act or omission of the applicant, its officers, employees, agents, contractors and assigns while engaged in, about, or in connection with the discharge or performance of the terms of this permit or the operation, maintenance and use of the proposed facilities, whether by the applicant or third parties. Such indemnification shall include, without limitation, attorney's fees, court costs, fines, penalties, legal, consulting, accounting, engineering, and other expenses. The applicant shall provide and bear the expenses of all personal, professional, or other applicable insurance related to its ownership and operation of the proposed facilities and its duties arising under the permit.

EIGHTH: That, the applicant is the owner of the facility for which a permit is requested, and is responsible for maintenance of such: and any permit granted by the Department is granted only insofar as the Department had the power and right to grant the same.

NINTH: That, any permit granted by the Department is subject to revocation at any time.

TENTH: That, signing for warning and protection of traffic in instances where workmen, equipment or materials are in close proximity to the roadway surfacing, shall be in accordance with requirements contained in the Department's Manual on Uniform Traffic Control Devices. No vehicles, equipment and/or materials shall operate from, or be parked, stored or stock piled on any highway, median, or in an area extending from the outer edge of the shoulder of the highway on one side to the outer edge of the shoulder of the highway on the opposite side or in the median of any divided highway.

ELEVENTH: That, all provisions and standards contained herein relative to the installation of utilities shall apply to future operation, service and maintenance of utilities.

TWELFTH: That, drainage in highway side and cross ditches must be maintained at all times. The entire highway right of way affected by work under a permit must be restored to as good a condition as existed prior to beginning work to the complete satisfaction of the Department's R/W Permit Engineer.

THIRTEENTH: Any non-metallic or non-conductive underground facility must be installed with a non-corrosive metallic wire or tape placed directly over and on the center of the facility for its entire length within highway right-of-way. Wire or tape must be connected to all facilities.

FOURTEENTH: Prior to performing any excavations, the applicant is required to call Louisiana One Call. If installing any underground facilities such as cable or conduits, the applicant must be a member of Louisiana One Call. In addition, the applicant must contact DOTD at DOTD-FiberLocates@la.gov at least 24 hours prior to performing any excavation on DOTD Right-of-way (either for installation or maintenance).

STANDARDS FOR THE INSTALLATION OF PIPELINES ON STATE HIGHWAYS

A. GENERAL

- (1) All materials and workmanship shall conform to the requirements of the applicable industry code and to Department specifications.
- (2) All safety precautions for the protection of the traveling public must be observed. Undue delay to traffic will not be tolerated.
- (3) All excavations within the limits of the right-of-way shall be backfilled and tamped in six inch layers to the density of the adjacent undisturbed soil. Where sod is removed or destroyed, it shall be replaced. Where it is necessary to make excavations in the shoulder, the top six inches of backfill shall be sand-clay gravel or equivalent. Where existing spoil material is, at the discretion of the Department, unsuitable for backfill, select material shall be furnished in lieu thereof and the existing material disposed of by approved methods.
- (4) Protruding valves and other above ground appurtenances shall not be installed at any point within the right of way of the highway except for vents, markers, etc., which may be installed at the right-of-way line, unless specifically approved herein.
- B. PARALLEL TO THE HIGHWAY (All provisions of general standards to apply.)
 - (1) Pipelines paralleling the highway:
 - (a) shall occupy the last few feet of the right-of-way back of the ditch except where upon showing of actual necessity a permit is issued for another location;
 - (b) shall have a minimum earth cover of twenty-four (24) inches;
 - (c) shall have a minimum clearance of twenty-four (24) inches below existing or proposed drainage structures, where possible.
 - (2) Utilities paralleling the highway are limited to distribution facilities.
- C. CROSSING THE HIGHWAY (All provisions of general standards apply.)
 - (1) Uncased pipelines may be permitted, provided the conditions outlined in E.D.S.M. IV 2.1.9 are met.
 - (2) If the permittee elects to use casing, it must extend from right-of-way to right-of-way, and be properly vented and marked at or beyond the right-of-way line.
 - (3) For cased pipelines, the casing shall have at least four (4) feet of cover below the roadway and two (2) feet of cover below ditches or drainage structures. Uncased pipelines shall have at least five (5) feet and three (3) feet of cover respectively.
 - (4) Crossings shall be made at as nearly right angles to the highway as possible. No existing drainage structure under the highway may be used for this purpose.
 - (5) Construction methods used shall be in accordance with the following requirements:
 - (a) Cutting the surface or tunneling under it is specifically prohibited.
 - (b) Installation shall be made either by boring or jacking under and through the highway at least from ditch bottom to ditch bottom. In the absence of ditches, or along sections of highway with curb or gutter, boring or jacking shall extend beyond the outside edge of the traveled way to a point at least equal to three (3) times the vertical difference between the elevation of the roadway surfacing and the elevation of the top of the cable. Where width of right-of-way is insufficient to enable compliance with this requirement or where it is necessary to make a connection to an existing parallel facility which precludes compliance, the distance shall be to the right-of-way line or to the parallel facility. Any voids or overbreaks resulting from this shall be backfilled with grout consisting of a cement mortar or slurry of fine sand or clay, as conditions require. Excavating an open ditch to the edge of the pavement and boring and jacking the remainder of the distance is prohibited. Jacking and boring shall be done in accordance with Section 728 of the La. Standard Specifications for Roads and Bridges, latest edition.

D. REMOVAL AND ABONDONMENT OF UTILITY FACILITIES

- (1) All facilities installed within state highway right-of-way shall be removed and disposed of by their owner as soon as they stop serving a useful purpose. Facilities may be abandoned under the following circumstances.
 - (a) Pipelines and casings crossing highways or other hard surfaces may be abandoned in place, with the recommendation of the district utility and permit specialist and the project engineer, and with the approval of the headquarters utility and permit engineer.
 - (b) Pipelines and casings installed along highways, may be abandoned in place, with the recommendation of the district utility and permit specialist and the project engineer, and with the approval of the headquarters utility and permit engineer, provided that they are less than 6 inches in diameter, or that they are buried with more than 8 feet or cover.
 - (c) Electrical and communication facilities installed within a casing, and crossing under highways or other hard surfaces may be abandoned in place with the recommendation of the district utility and permit specialist and the project engineer, and with the approval of the headquarters utility and permit engineer, provided that the cable is removed from the casing.
 - (d) Uncased cables crossing under highways or other hard surfaces may be abandoned in place provided that they are removed to a point as near to the edge of the highway as feasible.

- (e) Electrical and communication cables installed along highways may be abandoned in place, with the recommendation of the district utility and permit specialist and the project engineer, and with the approval of the headquarters utility and permit engineer, provided that they are less than 4 inches in diameter, or that they are buried with more than 8 feet of cover.
- (f) All above ground facilities installed along state highways shall be removed and disposed of by their owner as soon as they stop serving a useful purpose.
- (g) Facilities that are located so that their removal would be likely to result in damage to the highway, or to other facilities, may be abandoned in place, with the recommendation of the district utility and permit specialist and the project engineer, and with the approval of the headquarters utility and permit engineer. The procedure for abandoning these facilities will be specified on a case-by-case basis; however, in general, sections shall be removed here possible, and all remaining lines shall be filled with grout.
- (2) Where it is not possible nor feasible to remove pipelines and/or casings under existing highways, such pipelines and/or casings may be abandoned in place provided removals shall be accomplished by the owner, as near to the highway on each side as possible and in all cases, beyond existing ditches to right-of-way lines, and further provided that all pipelines and/or casings abandoned under the highway shall be abandoned in accordance with D.O.T. Title 49 (i.e., pipelines are purged, capped, and filled with grout; note that when highway construction will remove the line in the near future, the DOTD's project engineer may approve the use of water in place of grout).
- (3) Pipelines and cables shall be removed from abandoned casings where possible.
- (4) In all cases the highway right-of-way shall be repaired, at the permittee's expense, to match DOTD standards. An approved backfill material shall be used to fill in any trenches or low areas, and shall be compacted to the same density as the surrounding soil. Any desirable trees or shrubs that are damaged shall be replaced, and any other damages (i.e. to subsurface drainage, traffic signs, etc.) shall be repaired.
- (5) Companies who fail to comply with this by leaving their facilities within highway right-of-way after they are no longer used, or by not repairing the right-of-way after removing their facilities, shall not receive any permits until the situation is rectified.
- (6) In cases where the DOTD decides that it is necessary to remove a facility and/or to repair highway right-of-way damaged by a utility or the utility's facility, the company shall be invoiced for costs to the DOTD for removing abandoned facilities, or for repairing damaged right-of-way. Unpaid invoices shall be referred to DOTD's accounting section for further action.
- (7) Note that a recommendation for abandonment by the project engineer is required only on construction projects. The district construction engineer should be consulted by the district utility and permit specialist when an abandonment may cause a potential problem with future construction. The assistant district administrator should be consulted by the district utility and permit specialist when an abandonment may cause a potential maintenance problem.
- (8) The owner of the abandoned facilities shall maintain full responsibility for any future problems caused by the facilities, and shall remove the facilities upon receiving a written request from the DOTD. The cost of removing these facilities shall be borne by the owner and the DOTD shall assume no liability for this cost.

STANDARDS FOR THE INSTALLATION OF SUPPLY AND COMMUNICATION LINES ON STATE HIGHWAYS

- A. All pole lines shall occupy the last few feet of the right-of-way behind the ditch but shall be no further from the right-of-way line than one-half of the width of the cross-arms plus one foot, except where upon a showing of actual necessity a permit is issued for another location.
- B. A minimum vertical clearance of twenty (20) feet shall be maintained between the traveled surface of the highway and any aerial installation. In no case shall the vertical clearance for an overhead utility line be less than the clearance required by the National Electrical Safety Code. A minimum clearance of sixteen (16) feet shall be maintained between existing ground elevation and any aerial installation when such installation is within highway right-of-way but does not cross the traveled surface of a highway.
- C. Where supply and/or communication lines are placed underground, the standards for pipelines shall govern. Underground electric facilities must have at least four (4) feet of cover and must be encased when crossing a highway. These facilities must also be adequately marked by appropriate signs at specified locations.

PERM	MIT NUMBER			
CONTROL	255	SECTION	30	

STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

UTILITY PERMIT SUPPLEMENT

Rev 1/17

PIPE DATA SHEET

Highway No. LA-3034	Owner of Proposed Facility East Baton Rouge Sewerage Commission (EBROSCO)
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Data	Carrier Pipe	Casing (If Used)
Contents to be handled	Sanitary Sewer	Carrier Pipe
Pipe Material	PVC	Carbon Steel
Specification & Grade of Pipe	ASTM D 3034	ASTM A 53, B
Outside Diameter (inches)	12.5"	24"
Dimension Ratio (DR) for Non-Metallic Pipe	SDR 26	
Nominal Pipe Size (NPS) (inches)	12"	24"
Wall Thickness(inches)	0.481"	.375"
Specified Minimum Yield Strength (SMYS) (PSI)		35000 psi
Average Temperature of Transmittant	75° F	
Hydrostatic Design Basis (HDB) (PSI) for Non-Metallic Carrier Pipe	N/A, gravity	
*^Maximum Allowable Operating Pressure (MAOP) (PSI)	N/A, gravity	
Surge Pressure Allowance (PSI) for Pipe Carrying Liquid	N/A, gravity	
^Class Location	N/A	
Type of Joint (welded, mechanical, etc.)	Bell and Spigot	Welded
Method of Installation (bore, open cut, horizontal directional drilling, etc.)	Open Cut	Open Cut
Location (crossing or parallel)	Crossing	Crossing
Crossing Angle (if crossing highway)		90°
Minimum Depth beneath roadway surface (feet)		8'
Minimum Depth beneath ditches or drainage structures (feet)		5'
Pipe Vertical Deflection by Spangler Equation (inches)		
Coating Material		Bituminous
Cathodic Protection		None

^{*}This is not design pressure. MAOP is the highest pressure a pipeline may be operated under US DOT regulations.

This proposed installation is in compliance with Louisiana Department of Transportation and Development Standards.

(Signature of Owner, required)

Headquarters (original)

(Date)

pc: District

[^]Required for all pipelines (liquid and gas) except those not regulated by US DOT (i.e. water, sewage, brine, etc.).

PERMIT NUMBER	6	1	03	6	3	1	7	
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STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

UTILITY PERMIT SUPPLEMENT

Rev 1/17

PIPE DATA SHEET

Highway No.	LA-3034	Owner of Proposed Facility	East Baton Rouge Sewerage Commission (EBROSCO)

Data	Carrier Pipe	Casing (If Used)
Contents to be handled	Sanitary Sewer	Carrier Pipe
Pipe Material	PVC	Carbon Steel
Specification & Grade of Pipe	ASTM D 3034	ASTM A 53, B
Outside Diameter (inches)	12.5"	24"
Dimension Ratio (DR) for Non-Metallic Pipe	SDR 26	
Nominal Pipe Size (NPS) (inches)	12"	24"
Wall Thickness (inches)	0.481"	.375"
Specified Minimum Yield Strength (SMYS) (PSI)		35000 psi
Average Temperature of Transmittant	75° F	
Hydrostatic Design Basis (HDB) (PSI) for Non-Metallic Carrier Pipe	N/A, gravity	
*^Maximum Allowable Operating Pressure (MAOP) (PSI)	N/A, gravity	
Surge Pressure Allowance (PSI) for Pipe Carrying Liquid	N/A, gravity	
^Class Location	N/A	
Type of Joint (welded, mechanical, etc.)	Bell and Spigot	Welded
Method of Installation (bore, open cut, horizontal directional drilling, etc.)	Open Cut	Open Cut
Location (crossing or parallel)	Crossing	Crossing
Crossing Angle (if crossing highway)		90°
Minimum Depth beneath roadway surface (feet)		5'
Minimum Depth beneath ditches or drainage structures (feet)		3'
Pipe Vertical Deflection by Spangler Equation (inches)		
Coating Material		Bituminous
Cathodic Protection		None

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This proposed installation is in compliance with Louisiana Department of Transportation and Development Standards.

Richar & Brazillette	3/10/2023	
(Signature of Owner, required)	(Date)	
Headquarters (original)	pc: District	

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CONTROL	255	SECTION	3	30	

STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

UTILITY PERMIT SUPPLEMENT

Rev 1/17

PIPE DATA SHEET

Highway No.	LA-3034	Owner of Proposed Facility	East Baton Rouge Sewerage Commission (EBROSCO)
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Data	Carrier Pipe	Casing (If Used)
Contents to be handled	Sanitary Sewer	Carrier Pipe
Pipe Material	PVC	Carbon Steel
Specification & Grade of Pipe	ASTM D 3034	ASTM A 53, B
Outside Diameter (inches)	10.5"	20"
Dimension Ratio (DR) for Non-Metallic Pipe	SDR 26	
Nominal Pipe Size (NPS) (inches)	10"	20"
Wall Thickness(inches)	0.404"	0.344"
Specified Minimum Yield Strength (SMYS) (PSI)		35000 psi
Average Temperature of Transmittant	75° F	
Hydrostatic Design Basis (HDB) (PSI) for Non-Metallic Carrier Pipe	N/A, gravity	
*^Maximum Allowable Operating Pressure (MAOP) (PSI)	N/A, gravity	
Surge Pressure Allowance (PSI) for Pipe Carrying Liquid	N/A, gravity	
^Class Location	N/A	
Type of Joint (welded, mechanical, etc.)	Bell and Spigot	Welded
Method of Installation (bore, open cut, horizontal directional drilling, etc.)	Open Cut	Open Cut
Location (crossing or parallel)	Crossing	Crossing
Crossing Angle (if crossing highway)		90°
Minimum Depth beneath roadway surface (feet)		8'
Minimum Depth beneath ditches or drainage structures (feet)		5'
Pipe Vertical Deflection by Spangler Equation (inches)		
Coating Material		Bituminous
Cathodic Protection		None

^{*}This is not design pressure. MAOP is the highest pressure a pipeline may be operated under US DOT regulations.

This proposed installation is in compliance with Louisiana Department of Transportation and Development Standards.

Richard Brazillette 3/10/2023
(Signature of Owner, required) (Date)
Headquarters (original) pc: District

[^]Required for all pipelines (liquid and gas) except those not regulated by US DOT (i.e. water, sewage, brine, etc.).

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CONTROL	255	SECTION	30
COMMINGE		35011014	

STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

UTILITY PERMIT SUPPLEMENT

Rev 1/17

PIPE DATA SHEET

Highway No. LA-3034	Owner of Proposed Facility East Baton Rouge Sewerage Commission (EBROSCO)

Data	Carrier Pipe	Casing (If Used)
Contents to be handled	Sanitary Sewer	Carrier Pipe
Pipe Material	PVC	Carbon Steel
Specification & Grade of Pipe	ASTM D 3034	ASTM A 53, B
Outside Diameter (inches)	15.3"	30"
Dimension Ratio (DR) for Non-Metallic Pipe	SDR 26	
Nominal Pipe Size (NPS) (inches)	15"	30"
Wall Thickness(inches)	0.588"	0.469"
Specified Minimum Yield Strength (SMYS) (PSI)		35000 psi
Average Temperature of Transmittant	75° F	
Hydrostatic Design Basis (HDB) (PSI) for Non-Metallic Carrier Pipe	N/A, gravity	
*^Maximum Allowable Operating Pressure (MAOP) (PSI)	N/A, gravity	
Surge Pressure Allowance (PSI) for Pipe Carrying Liquid	N/A, gravity	
^Class Location	N/A	
Type of Joint (welded, mechanical, etc.)	Bell and Spigot	Welded
Method of Installation (bore, open cut, horizontal directional drilling, etc.)	Open Cut	Open Cut
Location (crossing or parallel)	Crossing	Crossing
Crossing Angle (if crossing highway)		90°
Minimum Depth beneath roadway surface (feet)		9'
Minimum Depth beneath ditches or drainage structures (feet)		6'
Pipe Vertical Deflection by Spangler Equation (inches)		
Coating Material		Bituminous
Cathodic Protection		None

^{*}This is not design pressure. MAOP is the highest pressure a pipeline may be operated under US DOT regulations.

This proposed installation is in compliance with Louisiana Department of Transportation and Development Standards.

(Signature of Owner, required)

Headquarters (original)

(Date)

pc: District

[^]Required for all pipelines (liquid and gas) except those not regulated by US DOT (i.e. water, sewage, brine, etc.).



Office of Engineering/District 61

PO Box 831 | Baton Rouge, LA 70821-0831 Phone: 225-231-4131 | fax: 225-231-4108

John Bel Edwards, Governor Shawn D. Wilson Ph. D., Secretary

March 14, 2023

6 1 0 3 6 3 1 7

PERMIT REVIEW FORM

The permit application is recommended for approval subject to the following provisions:

- All roadway crossings shall be near 90° as possible unless a written justification letter is provided. Permit approval
 does not include any railroad crossings.
- In no event shall utilities or above ground structures be installed in the highway clear zone or the fore-slope of the roadside ditch.
- All above ground structures such as hydrants, vents, valves, markers, etc, must be installed at or beyond the highway right-of-way line.
- Utilities shall maintain a minimum of 10' clearance from all bridge components including abutments and piles.
- Sewer line shall be installed within the last 5' of the right-of-way, maintain a minimum depth of 5' beneath the roadway surface, and 3' below all drainage structures and ditch flow lines.
- All lines under the highway shall be abandoned in accordance with D.O.T. Title 49 (i.e., pipelines are purged, capped, and filled with a cement mortar or a fine sand or clay) from right of way to right of way. The owner of the abandoned facilities shall maintain full responsibility for any future problems caused by the facilities, and shall remove the facilities upon receiving a written request from the DOTD. The cost of removing these facilities shall be borne by the owner, and the DOTD shall assume no liability for this cost.
- In all cases, the highway right-of-way shall be repaired at the permittee's expense, to match DOTD standards.
- An approved backfill material shall be used to fill in any trenches or low areas and shall be compacted to the same density as the surrounding soil. Sod must be replaced where removed or damaged.
- Excavations within 10' of the roadway edge must be properly shored to prevent de-stabilization of the roadway base/subbase/embankment. Bore pits shall be placed at or beyond DOTD right of way.
- Excavations within the right-of-way shall be backfilled and tamped to the density of the adjacent undisturbed soil. Where sod is removed or destroyed, it must be replaced.
- Lane closure requests, limits and duration shall be submitted to the District Area Engineer with at least one week notice
 prior to any closures. Closures shall accommodate all vehicles especially emergency response vehicles such as EMS,
 fire response and law enforcement vehicles.
- All signs and barricades shall be in accordance with DOTD Temporary Traffic Control (TTC's) during construction. A
 copy of the TTC's are located on DOTD website.
- Work shall be conducted to assure the least possible obstruction to traffic. All safety precautions for the protection of the traveling public must be observed.
- Applicant shall be responsible for removing any materials tracked onto the roadway. Materials and equipment, not in use, will not be stored within DOTD right of way.
- Any damages to DOTD property shall be repaired as directed by the DOTD Area Engineer.
- Damages caused during construction shall be the sole responsibility of the permittee with no liability or cost to DOTD (i.e. highway, drainage structures, driveways, utilities or private/public vehicles, etc.).

Cedric Lacour

From: Fishburn, William < William.Fishburn@jacobs.com>

Sent: Monday, March 13, 2023 9:05 AM

To: Toby Picard; Cedric Lacour

Cc: Rickey P. Brouillette; Young, Joseph; Watts, Obie

Subject: RE: Sullivan Road Sewer Project Permit Application (City Parish Project Number

H.002320)

EXTERNAL EMAIL: Please do not click on links or attachments unless you know the content is safe.

Cedric,

As discussed last week, I have replaced the project permit with a utility permit and included pipe data sheets for each of the 4 crossings. Please let me know if you need any additional information.

https://drive.google.com/drive/folders/1WCVTiUgAOX5QtX 4TcOf6D07cTn10nfi?usp=share link

Thanks, Will

From: Toby Picard <Toby.Picard@LA.GOV> Sent: Wednesday, March 8, 2023 4:33 PM

To: Fishburn, William < William. Fishburn@jacobs.com>

Cc: Rickey P. Brouillette <RPBROUILLETTE@brla.gov>; Adam M. Smith <amsmith@brla.gov>; Young, Joseph

<Joseph.Young12@jacobs.com>; Watts, Obie <Obie.Watts@jacobs.com>

Subject: [EXTERNAL] RE: Sullivan Road Sewer Project Permit Application (City Parish Project Number H.002320)

Thanks Will,

We are in receipt and I've forwarded to our District Permit Specialist, Cedric Lacour, who will begin the processing.

Thanks,

Toby D. Picard, P.E.

Assistant Road Design Engineer Administrator Office: (225) 379-1302 | Toby.Picard@la.gov

P.O. Box 94245, Rm. S-613 | 1201 Capitol Access Road Baton Rouge, LA 70804-9245





From: Fishburn, William < <u>William.Fishburn@jacobs.com</u>>

Sent: Wednesday, March 08, 2023 4:18 PM

To: Desmond Sam < Desmond.Sam@LA.GOV >; John Fontenot (DOTD) < John.Fontenot2@la.gov >; Toby Picard

<Toby.Picard@LA.GOV>

 $\textbf{Cc:} \ \ Rickey \ P. \ Brouillette < \underline{RPBROUILLETTE@brla.gov} >; \ Adam \ M. \ Smith < \underline{amsmith@brla.gov} >; \ Young, \ Joseph$

<Joseph.Young12@jacobs.com>; Watts, Obie <Obie.Watts@jacobs.com>

Subject: RE: Sullivan Road Sewer Project Permit Application (City Parish Project Number H.002320)

EXTERNAL EMAIL: Please do not click on links or attachments unless you know the content is safe.

Gentlemen,

6 1 0 3 6 3 1 7

The link below contains the files for the Project Permit application for the Sullivan Road sewer project (City Parish Project Number H.002320). I've highlighted a few items in this version of the plan set that contain the additions we made to the plans based off of our last conversation. Please let me know if any additional information is needed.

https://drive.google.com/drive/folders/1WCVTiUgAOX5QtX 4TcOf6D07cTn10nfi?usp=share link

We are set to run the first project advertisement this Friday.

Thanks, Will

From: Fishburn, William

Sent: Wednesday, March 1, 2023 9:19 AM
To: Desmond Sam < Desmond.Sam@LA.GOV >
Cc: Adam M. Smith < amsmith@brla.gov >

Subject: Sullivan Road Sewer

Hey Desmond,

I'm working through some of the items we discussed yesterday on Sullivan road sewer. Did you have a chance to get some of the items together that you were going to send? I found in the previous spec books the language on the mowing. We will incorporate this into our specs.

105.15 MAINTENANCE DURING CONSTRUCTION.

The contractor shall satisfactorily maintain the entire area within the project, from the effective date of the Notice to Proceed until the date of final acceptance. This maintenance responsibility includes, but is not necessarily limited to, maintaining drainage, periodic mowing (not to exceed four times per calendar year) and removing of debris and remains, to the satisfaction of the engineer, as well as such striping, patching and shoulder maintenance which will provide safe and convenient conditions at all times for the public. The contractor shall continuously and effectively satisfy his maintenance responsibilities with such equipment and forces as may be necessary to maintain a safe and satisfactory condition for the duration of the project.

All adjacent and parallel roadways within the project limits which are affected by construction shall be the maintenance responsibility of the contractor.

The contractor shall maintain the roadway in a satisfactory condition to allow traffic to safely travel through the work zone at the posted speed limit at no additional cost to the Department.

I think the other items were the language regarding allowable road closure times, and the information for submitting the Right of Way permit. Looks like the ROW permits are only available to DOTD employees. Were you going to send this information over, or am I looking at the wrong type of permit?

Right-of-Way Permits (DOTD Only)

These files are only viewable by logging onto the web site.

Additional Resources

Thanks, Will

6 1 0 3 6 3 1 7

Will Fishburn | Jacobs | Project Delivery
M:+1.225.810.6432 | William.fishburn@jacobs.com
100 North Street, Suite 901 | Baton Rouge, LA 70802 | USA

Plan, Progress, Deliver

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CITY OF BATON ROUGE

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EAST BATON ROUGE

PROJECT NUM H.002320

BATON ROUGE

PARISH

PARISH OF EAST BATON ROUGE

EAS DEPARTMENT BATON 무 ROUGE ENVIRONMENTAL SEWERAGE COMMISSION SERVICES

PLANS OF PROPOSED

SANITARY

SEWER

IMPROVEMENTS

PROJECT

DESIGNED CHECKED DETAILED CHECKED

H.002320

CITY PARISH PROJECT NO.

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SULLIVAN ROAD (WAX-HOOPER)

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PUMP STATION ELECTRICAL SITE PLAN
PUMP STATION ELECTRICAL RISER DIAGRAM & DETAILS

EBR PARISH STANDARD PLAN

SHEET NO.

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TEMPORARY TRAFFIC CONTROL
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TEMPORARY TRAFFIC CONTROL TYP.

DOTD SPECIAL DETAILS

TRAFFIC CONTROL PLANS (12 SHEETS)

Know what's below.

Call before you dig

NOTE:
THE 1997 EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CITY OF BATON ROUGE AND PARISH OF EAST BATON ROUGE, LOUISIANA, AS AMENDED BY THE PROJECT SPECIFICATIONS SHALL GOVERN ON THIS PROJECT.

TC-00(A) to (D), TC-01 to TC-07,



SOURCE: 2023 NEARMAP IMAGERY PROJECT VICINITY MAP



REPARED BY
ND RECOMMENDED
OR APPROVAL

TE 3-2-23 DESIGN ENGINEER

RECOMMENDED FOR APPROVAL DATE. SSO PROGRAM MANAGER

DATE. FOR APPROVAL Cachey P. Bro

APPROVED CHIEF OF ENGINEERING

DATE

ENVIRONMENTAL SERVICES DIRECTOR



Jacobs

SULLIVAN ROAD (WAX-HOOPER) SANITARY SEWER IMPROVEMENTS PROJECT

PROJECT LO 10981 SULLI BATON ROU

REVISION DESCRIPTION

TITLE SHEET

- THE PROJECT TEMPORARY BENCH MARKS (T.B.M.'S)/ VERTICAL AND HORIZONTAL CONTROLS ARE INDICATED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL VERFY THE T.B.M. ELEVATIONS AND SHALL VERFY ALL MEASUREMENTS AND GRADES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ESTABLISH ADDITIONAL BASELINES AND T.B.M.'S PRIOR TO DESTROYING ANY EXISTING MONUMENTS/ NAILS/ CROSS CUTS, ETC. THE MAXIMUM LENGTH OF OPEN TRENCH AWAITING PIPE INSTALLATION AND BACKFILL SHALL NOT EXCEED 100 LINEAR FEET PER CREW
- THE CONTRACTOR SHALL BRACE ALL POLES ADJACENT TO EXCAVATION, AND BRACING SHALL REMAIN IN PLACE AFTER BACKFILLING UNTIL COMPACTION REQUIREMENTS FOR BACKFILL ARE MET. ALL WORK ADJACENT TO POLES SHALL BE COMPLETED PROMPTLY. THE CONTRACTOR SHALL BRACE/RELOCATE GUY WIRES IN CONFLICT WITH CONSTRUCTION OF FORCE MAIN.
- THE WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE EBR DPW STANDARD DETAILS, DRAWING AND SPECIFICATIONS AS AMENDED BY THE DRAWINGS AND SPECIAL PROVISIONS OF THE PROJECT.
- THE CONTRACTOR SHALL REQUEST PERMISSION IN WRITING FROM THE ENGINEER IF THEY WISH TO WORK ON AN EBR DPW HOLIDAY OR WEEKEND DAY. THE CONTRACTOR SHALL REQUEST AND OBTAIN PERMISSION FROM THE ENGINEER TO WORK OUTSIDE THE REGULAR WORKING HOURS OF 7:00 A.M. TO 6:00 P.M.
- PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A COMPLETE SET OF RECORD DRAWINGS SHOWING CHANGES FROM THE ORIGINAL DRAWINGS IN ACCORDANCE WITH SECTION 5-15 OF THE SPECIAL PROVISIONS.
- ALL TRAFFIC CONTROL SIGNS/DEVICES/PAVEMENT MARKINGS THAT HAVE BEEV MOVED, ALTERED OR DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL POSITION, CONDITION AND ORIENTATION BY THE CONTRACTOR ONCE WORK IS COMPLETE IN THE IMMEDIATE AREA OF CONSTRUCTION. THE CONTRACTOR SHALL ACCEPT ALL LIABLITIES RESULTING FROM ALTERATION AND REMOVAL OF TRAFFIC CONTROL SIGNS/DEVICES/PAVEMENT MARKINGS. THE CONTRACTOR SHALL REGRADE ALL AREAS AFFECIED BY THE CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONUNG. ALL WORK SHALL BE NO PREVENT PONUNG. ALL WORK SHALL BE NO PREVENT PONUNG. ALL WORK SHALL BE ADJUSTED FOR SMOOTH FLOW OF SURFACE RUN-OFF TO THE NEAREST DRAINAGE INLET.
- THE CONTRACTOR SHALL GIVE A MINIMUM WRITTEN NOTICE OF 24 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) TO THE ENGINEER AND THE ASSIGNED TESTING LABORATORY PRIOR TO THE POURING OF ANY CONCRETE.
- THE CONTRACTOR SHALL MAINTAIN A SAFE DISTANCE FROM ALL ENERGIZED POWER LINES IN ACCORDANCE WITH OSHA AND NEC REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE MAXIMUM HEIGHT AND REACH ATTAINABLE BY ANY PART OF ANY PIECE OF EQUIPMENT. AFTER COCORDINATING WITH THE POWER POTTO DETERMINE THE HEIGHT LOCATION OF THE POWER LIVE, THE CONTRACTOR SHALL DETERMINE THE SAFE CLEARANCE WHICH WILL NOT BE VIOLATED. IF THE SAFE CLEARANCE WILL BE VIOLATED PRIOR TO BECINNING ANY OPERATIONS IN THE AREA, THE CONTRACTOR SHALL COORDINATE WITH THE ENERGY PROVIDER TO DE-ENERGIZE THE LINE, THE CONTRACTOR SHALL AND SHALL ESTABLISH A COORDINATION PROCEDURE WITH THE POWER ENTITY TO ENSURE THAT THE CONTRACTOR SHALL HAVE SUFFICIENT NOTICE TO ALLOW REMOVAL OF ALL EQUIPMENT WHICH MAY VIOLATE THE SAFE CLEARANCE FROM THE AREA PRIOR TO THE LINE BEING RE-ENERGZED.
- $\vec{\exists}$ EXISTING FENCING AND DRIVEWAY CULVER'S CONFLICTING WITH CONSTRUCTION SHALL BE REMOVED AND REINSTALLED OR REPLACED IN KIND, SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND SHALL BE PERFORMED AT NO DIRECT PAY.
- 12. DURING THE COURSE OF CONSTRUCTION IT MAY BECOME NECESSARY TO TEMPORABILY REMOVE AND REPLACE MAILBOXES, NEWSPAPER DELIVERY TUBES AND MAILBOX SUPPORTS. SHALL ONLY BE REMOVED AND REPLACED IF IT IS ABSOLUTELY NECESSARY TO FACILITATE EXCANATION OF TRENDELS FOR PIPES INSTALLATION, AND ADDIT OF PROTECT EXSTINE MAILBOXES AND SUPPORTS FROM DAMAGE. MAILBOXES, ALTHOUGH INSTALLED ON PUBLIC RIGHT-OF-WAY, ARE PRIVATELY OWNED. CONTRACTOR MUST COORDINATE WITH THE MALBOX OWNER AND THE US POSTAL SERVICE TO INSURE OWNER RECEIVES MAIL DELIPVERES. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS TO DAYS IN ADVANCE IN WRITING THAT THE MAILBOXES AND MAILBOX SUPPORTS WILL BE REMOVED FOR CONSTRUCTION AND WILL BE REINSTALLED WHITH A STIPULATED TIME—PERROD NOT TO EXCEED 24 HOURS, REMOVAL AND REPLACEMENT OF MAILBOXES AND MAILBOX SUPPORTS SHALL BE REINSTALLED WHITH A STIPULATED TIME—PERROD NOT TO EXCEED 24 HOURS, REMOVAL AND REPLACEMENT OF MAILBOXES AND MAILBOX SUPPORTS SHALL BE REINSTALLED WHITH A STIPULATED TIME—PERROD NOT TO EXCEED 24 HOURS, REMOVAL AND REPLACEMENT OF MAILBOXES AND MAILBOX SUPPORTS SHALL BE CONSIDERED AS INCIDENTAL WORK AND SHALL BE PERFORMED AT NO DIRECT PAY.
- 13. ALL UNPAVED DISTURBED AREAS SHALL BE SEEDED AND FERTILIZED IN ACCORDANCE WITH THE SPECIFICATIONS. SEEDING AND FERTILIZING SHALL BE INCLUDED IN BID ITEM 9031600 STORM WATER PREVENTION PLAN.
- 14. LOCATION OF EXISTING UNDERGROUND UTLITIES HAS BEEN PREPARED FROM INFORMATION AVAILABLE TO THE OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION, SIZE, AND DEPTH OF ALL PERTINENT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY CONSEQUENCES OF UTILITIES NOT SHOWN OR SHOWN INCORRECTLY SHALL NOT CONSTITUTE AND EXTRA COST TO THE OWNER.
- 5 EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS AS IDENTIFIES BY EACH UTILITY COMPANY AND LOCATED BY " LOUISIANA 811" DURING DESIGN. CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANY AT LEAST 46 HOURS PROR TO ANY CONSTRUCTION, TO VERHY THE EXACT LOCATIONS, DESTINA A LOCATION, DEPTH, A LOUISTEE OF ALL UNDERGROUND UTILITIES, PIPELINES, AND STRUCTURES PRIOR TO CONSTRUCTION AND SHALL BE LESPONSIBLE FOR DETERMINING THE EXACT LOCATION, DEPTH, A LOUISTE OF ALL UNDERGROUND UTILITIES, PIPELINES, AND STRUCTURES PRIOR TO CONSTRUCTION AND SHALL BE LIABLE FOR ANY DAMAGE CAUSED BY FAILURE TO COMPLY WITH THESE
- 16.
- EXISTING CROSS DRAINS SHALL BE PROTECTED DURING INSTALLATION. ALL DRAINAGE PIPES AND/OR STRUCTURES THAT ARE DISTURBED SHALL BE PROMPTLY REPLACED WITH NEW PIPES AND/OR STRUCTURES OF THE SAME SIZE AND MATERIAL AND AT THE SAME SLOPES AND INVERTS AS WERE DISTURBED. ANY DRAINAGE PIPES AND/OR STRUCTURES THAT ARE DAMAGED PURING CONSTRUCTION SHALL BE REPLACED AT NO DIRECT PAY TO THE OWNER.

 ALL STORM DRAINAGE PIPES SHALL BE SMOKE TESTED IN ACCORDANCE WITH SECTION 710 OF THE PROJECT SPECIFICATIONS.

 POST INSTALLATION TESTS FOR SANITARY SEWER MANHOLES ARE TO BE PERFORMED IN ACCORDANCE WITH SECTION 803-5 OF THE PROJECT SPECIFICATIONS AND ASTM C17244.
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- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL TRAFFIC DURING CONSTRUCTION AND NOT IMPEDE TRAFFIC ON ANY PUBLIC STREETS WITHOUT WRITTEN APPROVAL FROM EITHER THE LA DOTD FOR STATE HIGHWAYS OR CITY-PARISH DPW FOR OTHER PUBLIC STREETS, CONTRACTOR SHALL INSTALL AND MAINTAIN ADEQUATE CONSTRUCTION SIGNING AND BARRICADES IN ACCORDANCE WITH THE MAINTAIN OF MAINTENANT ARFER CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS TO ENSURE SAFETY OF THE WORKMEN AND THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.

 THE CONTRACTOR SHALL PROVIDE TEMPORARY TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH CITY PARISH STANDARD DETAILS 905-01 THROUGH 905-11.
- 20. THE CONTRACTOR SHALL PROVIDE TEMPORARY TRAFFIC CONTROL MEASURES IN AUCUSIANISM TO THE CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO ALL RESIDENTS AND BUSINESSES AFFECTED BY HIS/HER WORK AND SHALL ALSO PROVIDE ACCESS TO UTILITY COMPANIES FOR MAINTENANCE AND WORK ON THEIR UTILITIES DURING THE COURSE OF WORK AT NO ADDITIONAL COST TO THE OWNER.
- 22. THE CONTRACTOR SHALL PROVIDE SUPPORT OF EXISTING UTILITIES EXPOSED DURING EXCAVATION TO MAINTAIN SERVICE AND INTEGRITY OF UTILITY.

 23. AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION THE CONTRACTOR SHALL CONTRACT LOUISIANA 811, 1-800-272-3020 AND VERHY THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL PROVIDE WRITTEN PROOF TO THE CITY/PARISH THAT THE CONTACT WAS MADE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OCCASIONED BY FAILURE TO COMPLY WITH THESE INSTRUCTIONS.
- 24. ANY UTILITIES THAT WILL NEED TO BE RELOCATED SHALL BE DONE SO AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH EACH UTILITY COMPANY TO HAVE THESE UTILITIES RELOCATED.
- 25. WRITTEN PERMISSION FOR USE AND TO HOLD HARMLESS MUST BE OBTAINED FROM THE PROPERTY OWNERS PRIOR TO WORKING ON PRIVATE PROPERTY, COPIES OF PERMISSION MUST BE PROVIDED TO CITY/PARISH.
- 26. DRIVEWAYS, WALKS AND CURB OR PORTIONS THEREOF SHALL BE REPLACED WITH STONE IF REMOVED DURING CONSTRUCTION
- 28. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES DURING CONSTRUCTION.
 29. THE CONTRACTOR SHALL SATISFACTORY MAINTAIN THE ENTIRE AREA WITHIN THE PROJECT
- 30. ADJACENT AND PARALLEL ROADWAYS WITHIN THE PROJECT LIMITS WHICH ARE AFFECTED BY CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE
- 31
- 32.
- THE CONTRACTOR SHALL NEATLY SAW CUT (FULL DEPTH) ALL ROADWAYS AND DRIVEWAYS FOR REMOVAL AND RESTORATION OF PAVEMENT. A NEAT EDGE OF PAVEMENT IS REQUIRED PRIOR TO PERMANENT PAVEMENT REPAIR. IF NOT CONTRACTOR SHALL PERFORM A NEW SAW CUT AT NO ADDITIONAL COST TO THE OWNER, DURING THE TIME BETWEEN THE FINAL BACKCILL, OF PIRE INSTALLATION AND COMPLETION OF THE PERMANENT PAVEMENT REPAIR, THE CONTRACTOR SHALL IEMPORABILY FURNISH, PLACE, SHAPE, COMPACT, AND MAINTAIN TRAFFIC IN ACCORDANCE MITH THE SPECIFICATIONS. IN ADDITION, THE CONTRACTOR SHALL TEMPORABILY FURNISH, PLACE, SHAPE, COMPACT, AND MAINTAIN TRAFFIC MAINTENANCE AGGREGATE UNTIL THE PERMANENT PAVEMENT REPAID IS COMPLETE. OTHERWISE, CONTRACTOR MAY COMPLETE SURFACE

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- RESTORATION, RENEDIAL OR FOLLOW-UP WORK IMMEDIATELY AFTER COMPLETION OF THE REPAIR AND FINAL BACKFILL 33. CONTRACTOR SHALL HAVE A CONFORMED SET OF PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES 34. ALL WORK SHALL BE PERFORMED BY A LOUISIANA LICENSED CONTRACTOR.
- INDICATED SCALES ARE BASED ON FULL SIZED (24" x 36") DRAWINGS. IF THE DRAWINGS ARE ACCORDINGLY. REDUCED OR INCREASED, SCALES MUST BE ADJUSTED
- 36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROJECT SITE RESULTING FORM THE CONTRACTOR'S CONSTRUCTION ACTIVITIES.

 37. CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR WORKING CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. DURING PERFORMANCE OF WORK THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. 36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROJECT SITE RESULTING
- 39. CONTRACTOR SHALL CAREFULLY POTHOLE AND EXPOSE SELECTED SUBSURFACE UTILITIES TO OBTAIN THREE-DIMENSIONAL INFORMATION. NO CONTRACT TIME WILL BE ADDED FOR ANY CONTRACTOR DOWNTIME WHILE WAITING TO COORDINATE THE POTHCLING CPERATION WITH A GIVEN UTILITY COMPANY. IF A CONFLICT IS VERHED THAT WOULD PREVENT THE CONTRACTOR FROM PERFORMING THE WORK, HE IS TO CONTACT THE PROJECT ENGINEER IMMEDIATELY AND FOLLOW THE CONFLICT LOG PROCESS. 38. A COPY OF ALL RELATIVE REFERENCE MAPS FOR THIS PROJECT MAY BE AVAILABLE AT THE DEPARTMENT OF PUBLIC WORKS FOR THE CONTRACTOR'S REVIEW
- THE CONTRACTOR SHALL VERIFY THE ALIGNMENT, ELEVATIONS, LENGTHS AND GRADES OF ALL PLENGTHS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES AND/OR CONFLICTS THAT ARE DISCOVE ADVANCE TO MAKE ANY REQUIRED ADJUSTMENTS TO THE DESIGN ROPOSED IMPROVEMENTS INCLUDING THE PIPE RESTRAINT RED SHALL BE REPORTED TO THE ENGINEER FAR ENOUGH IN

40.

- TRACTOR IN ACCORDANCE WITH
- ALL EXCAVATIONS GREATER THAN 4' IN DEPTH WILL REQUIRE TEMPORARY SHORING BY THE CONSTRUCTION WILL BE AT NO ADDITIONAL COST TO THE OWNER. SHALL BE VERIFIED BY THE CONTRACTOR OSHA REGULATIONS. SUCH Z THE FIELD PRIOR
- 43. ALL PROPOSED MANHOLE TOP ELEVATIONS SHALL BE FLUSH WITH NATURAL GROUND. CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP EXCAVATIONS DE NEEDED TO PROTECT ADJACENT STRUCTURES, UTILITIES, OR TO MINIMIZE TRENCH WIDTH AND NO ACTUAL INVERT ELEVATIONS OF EXISTING SEWER LINES, MANHOLES, AND DRAINAGE CULVERTS ORDERING MATERIALS AND STARTING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. DRECT PAY. SHORING, AND BRACING
- 45. UTILITIES:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM LOUISIANA 811 OR VISIBLE UTILITY FEATURES. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES, EXCEPT FOR ABOVE GROUND VISIBLE UTLITY FEATURES.

UTILITY COMPANIES TO BE CONTACTED BY LOUISIANA ONE CALL:
BATON ROUGE WATER - (225) 952-7688
COX COMMUNICATIONS - (800) 234-3993
EBR CITY PARISH SEWER - (225) 389-5378
AT&T = (210) 821-4105
EXXON MOBILE - (225) 755-0110

ILE - (225) 755-0110 (800) 368-3749



Jacobs

SULLIVAN ROAD (WAX-HOOPER) SANITARY SEWER IMPROVEMENTS PROJECT **GENERAL NOTES**

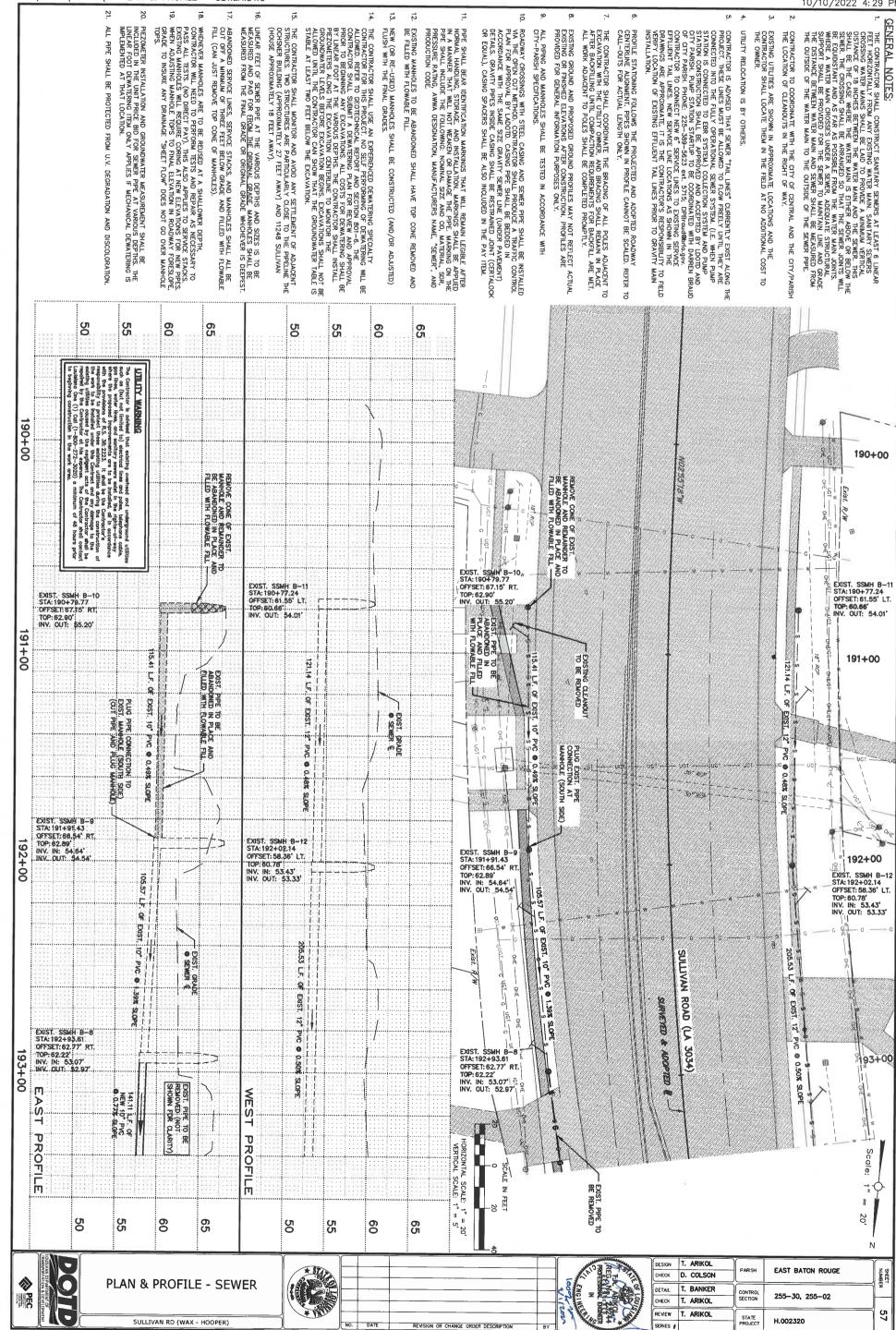
DATE

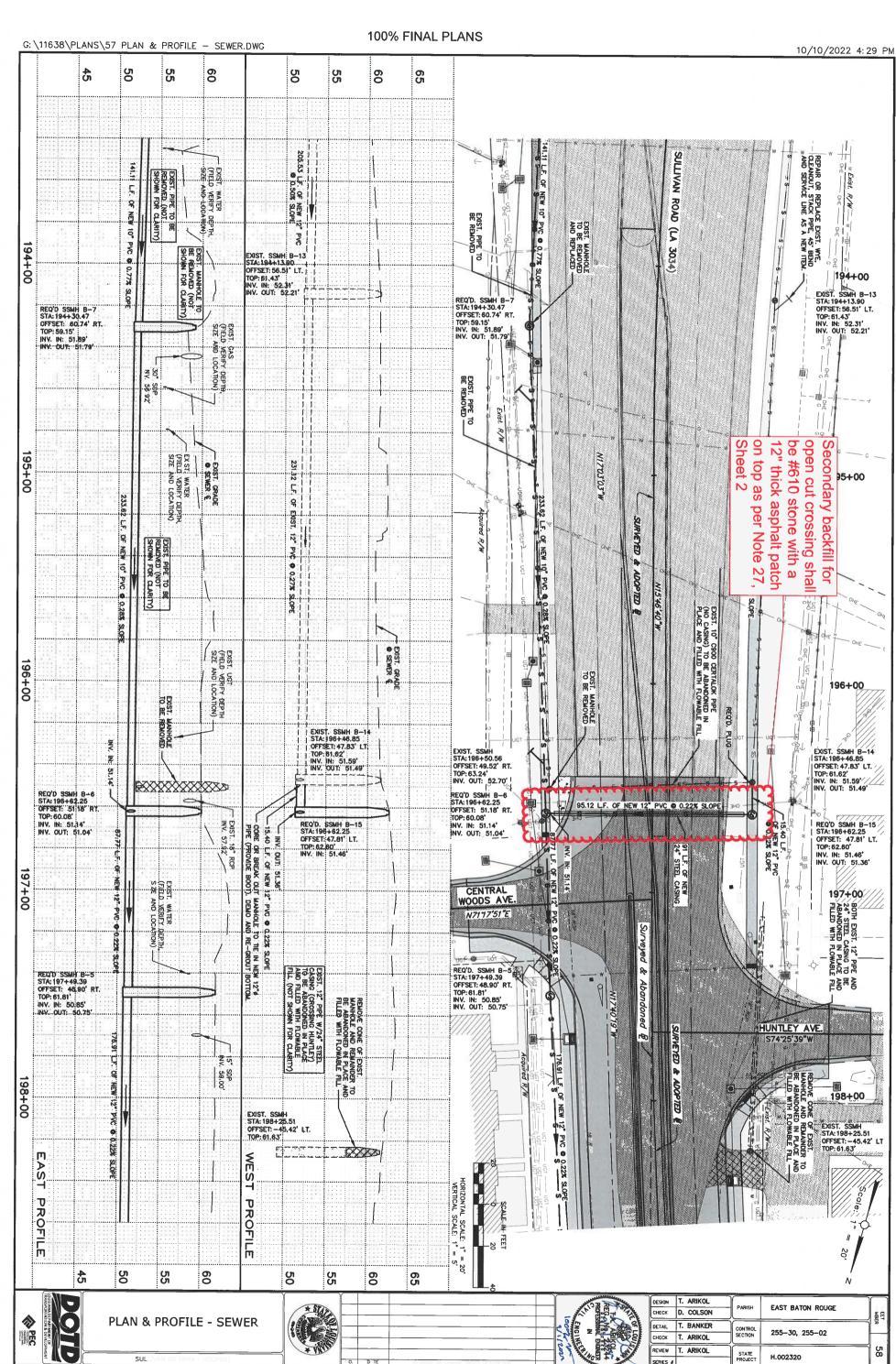
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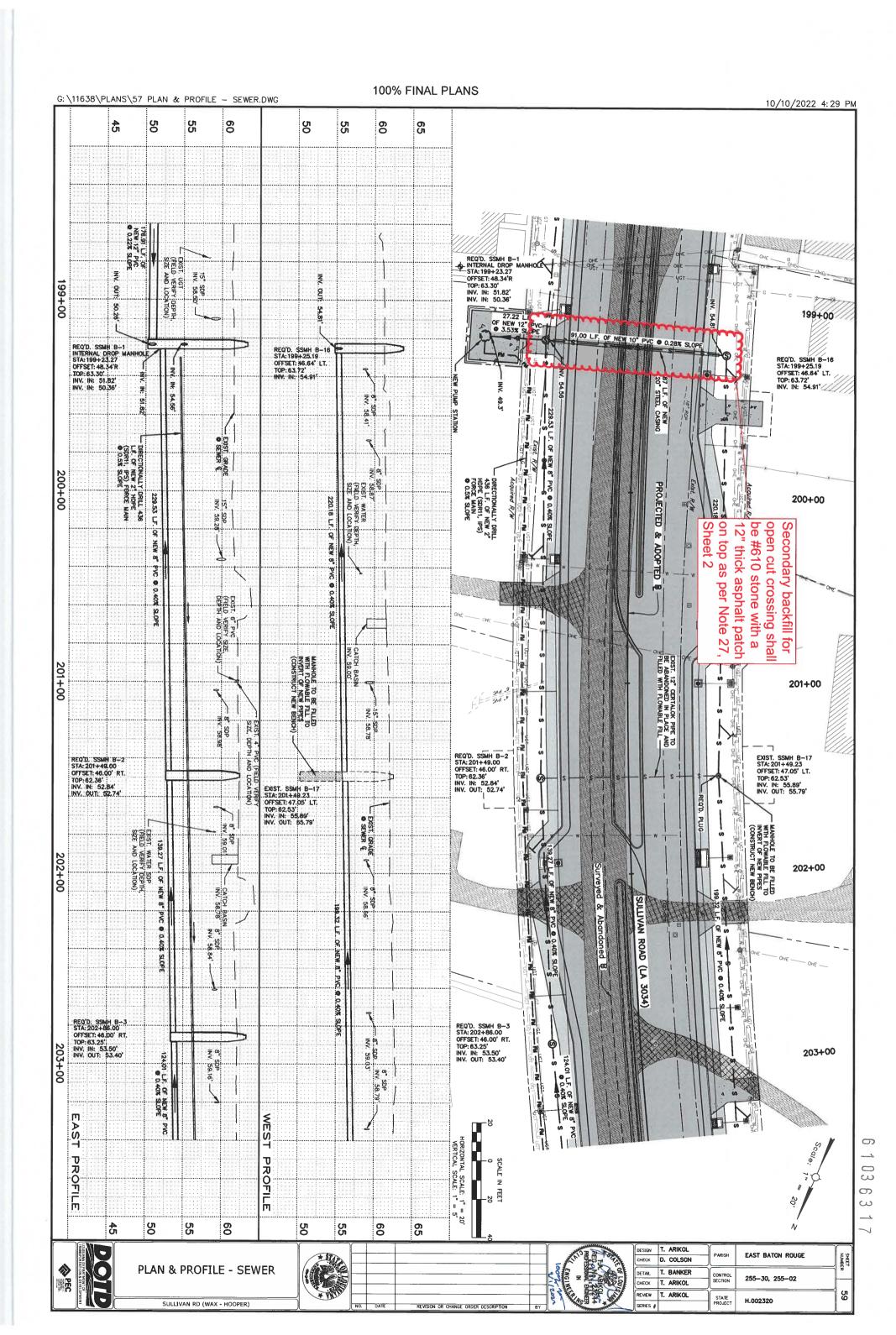
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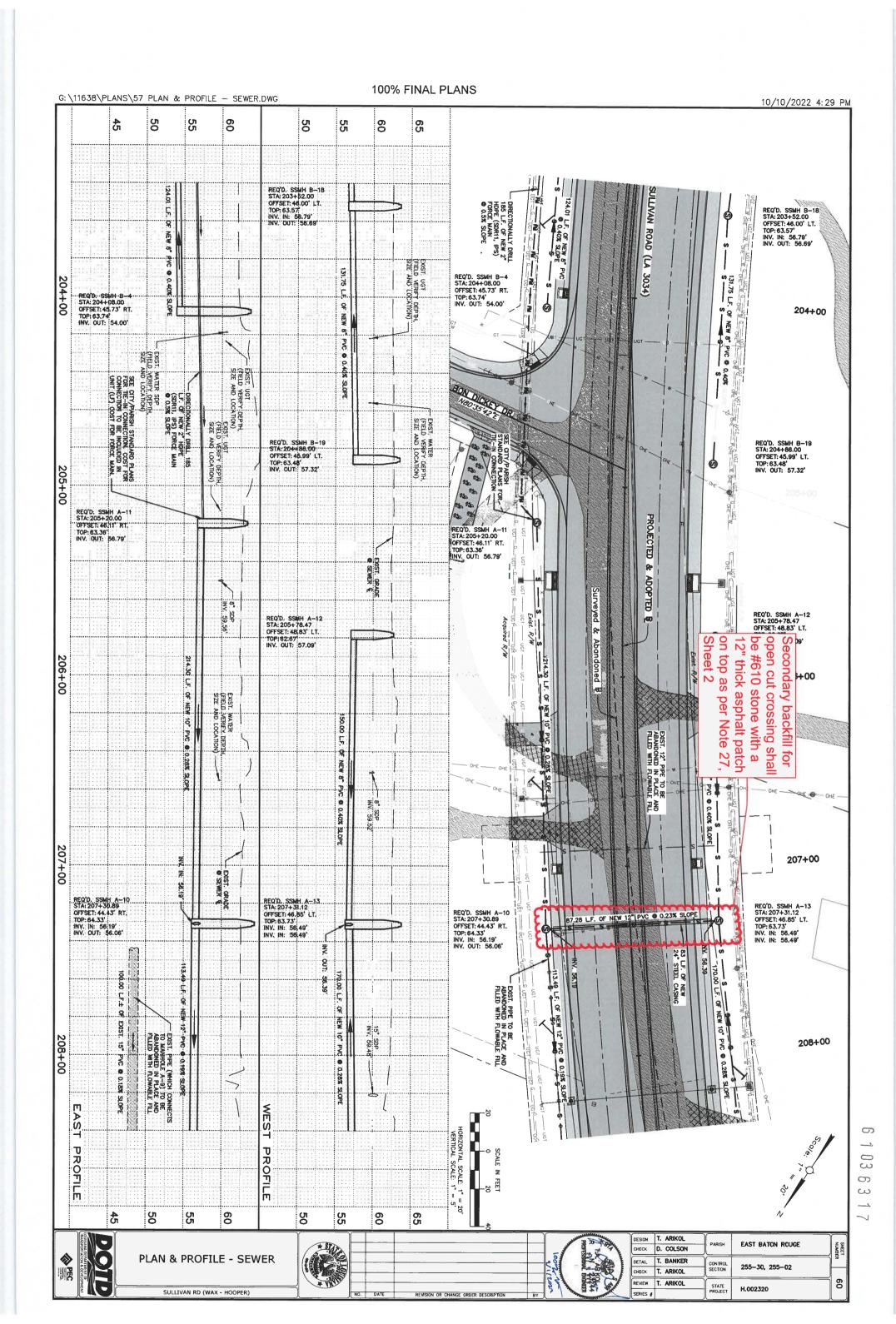
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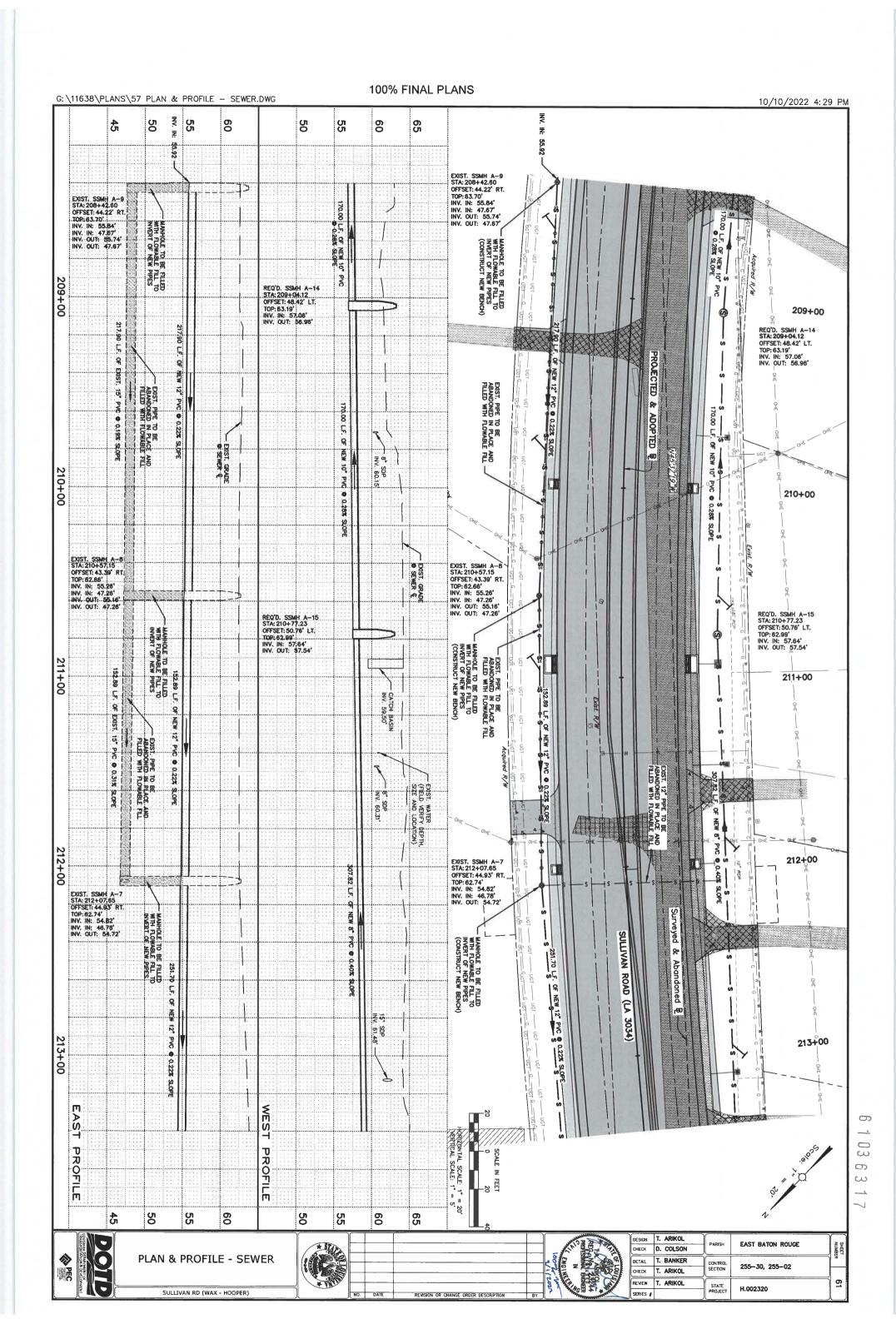
PROJECT NUM H,002320







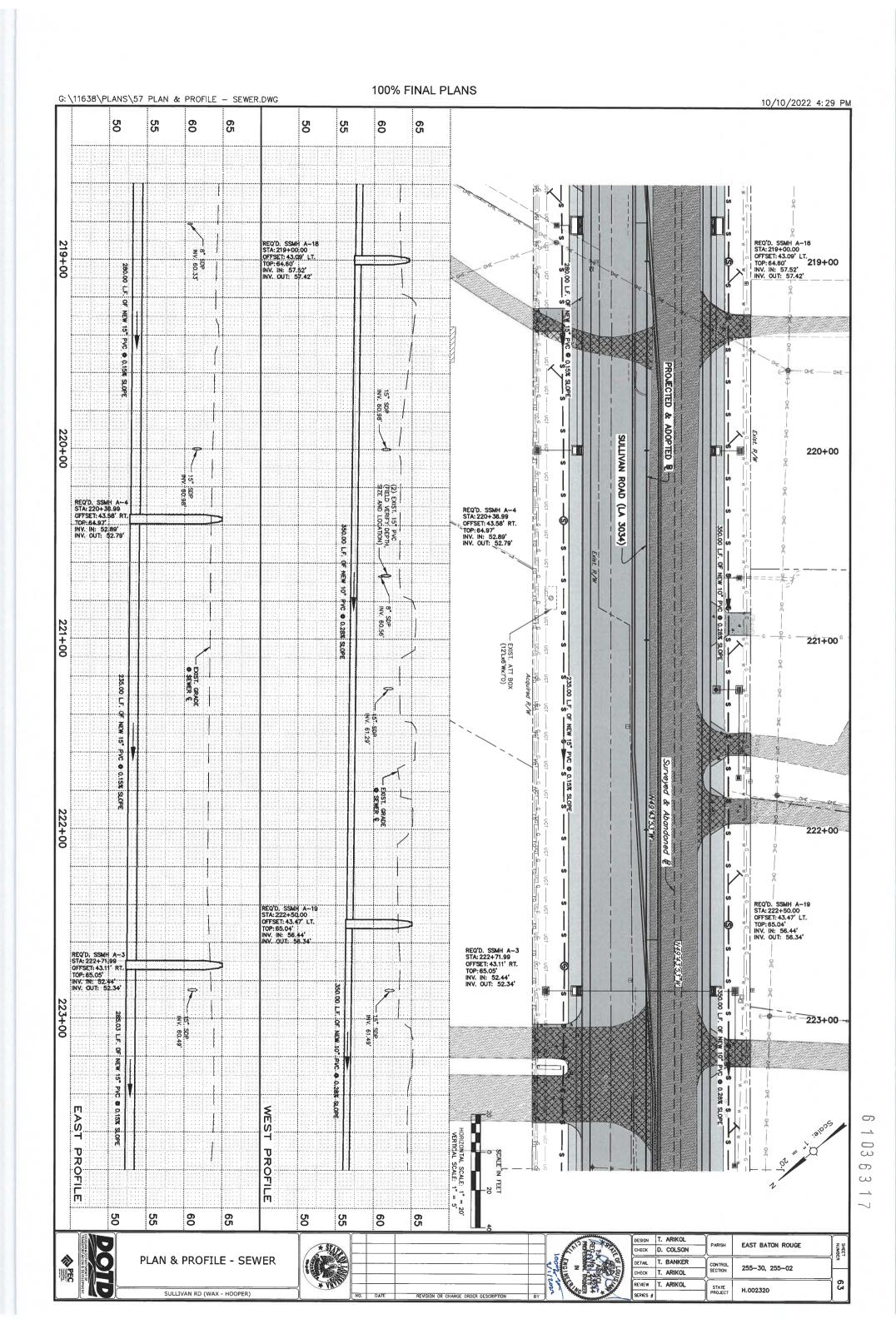


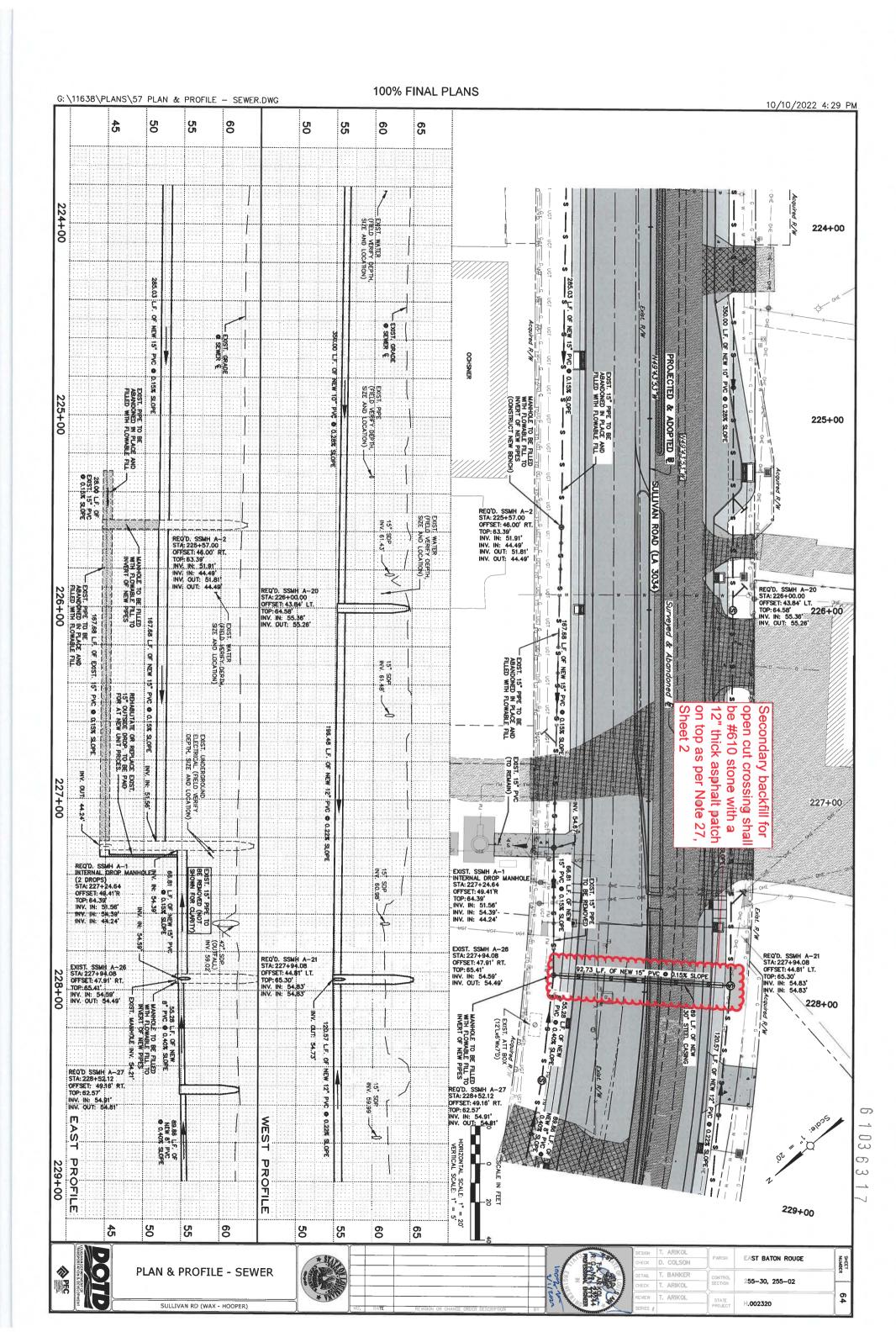


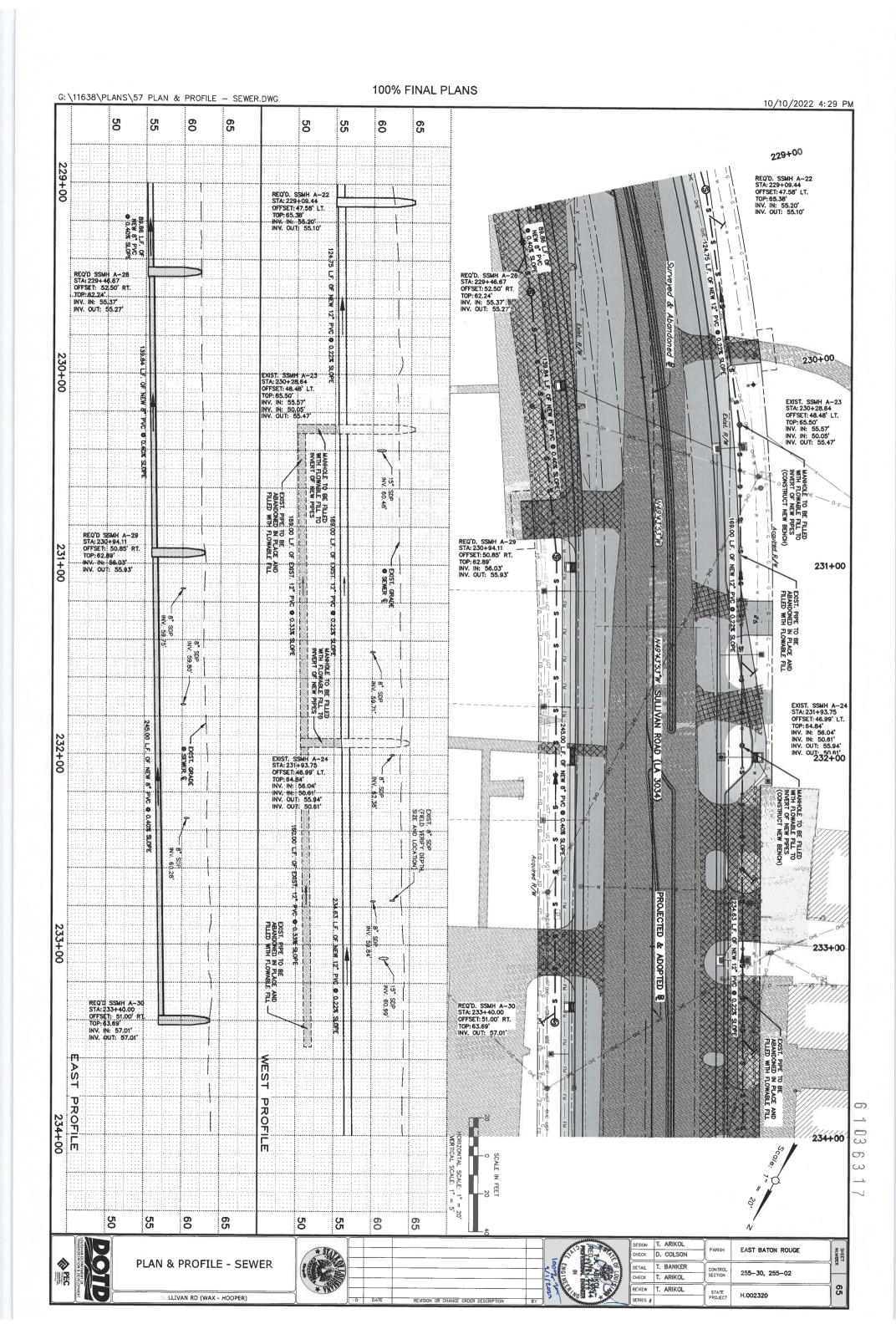
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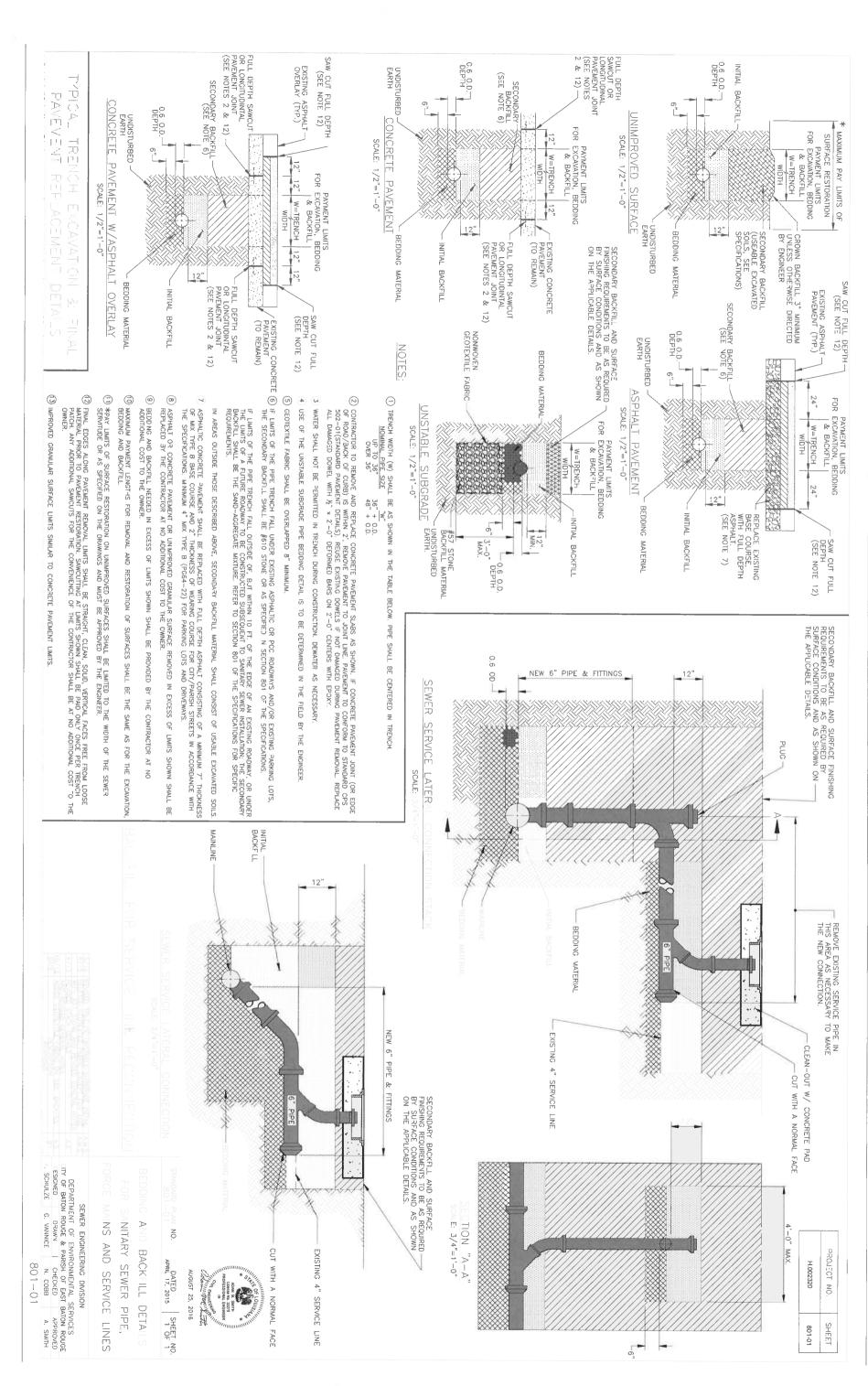
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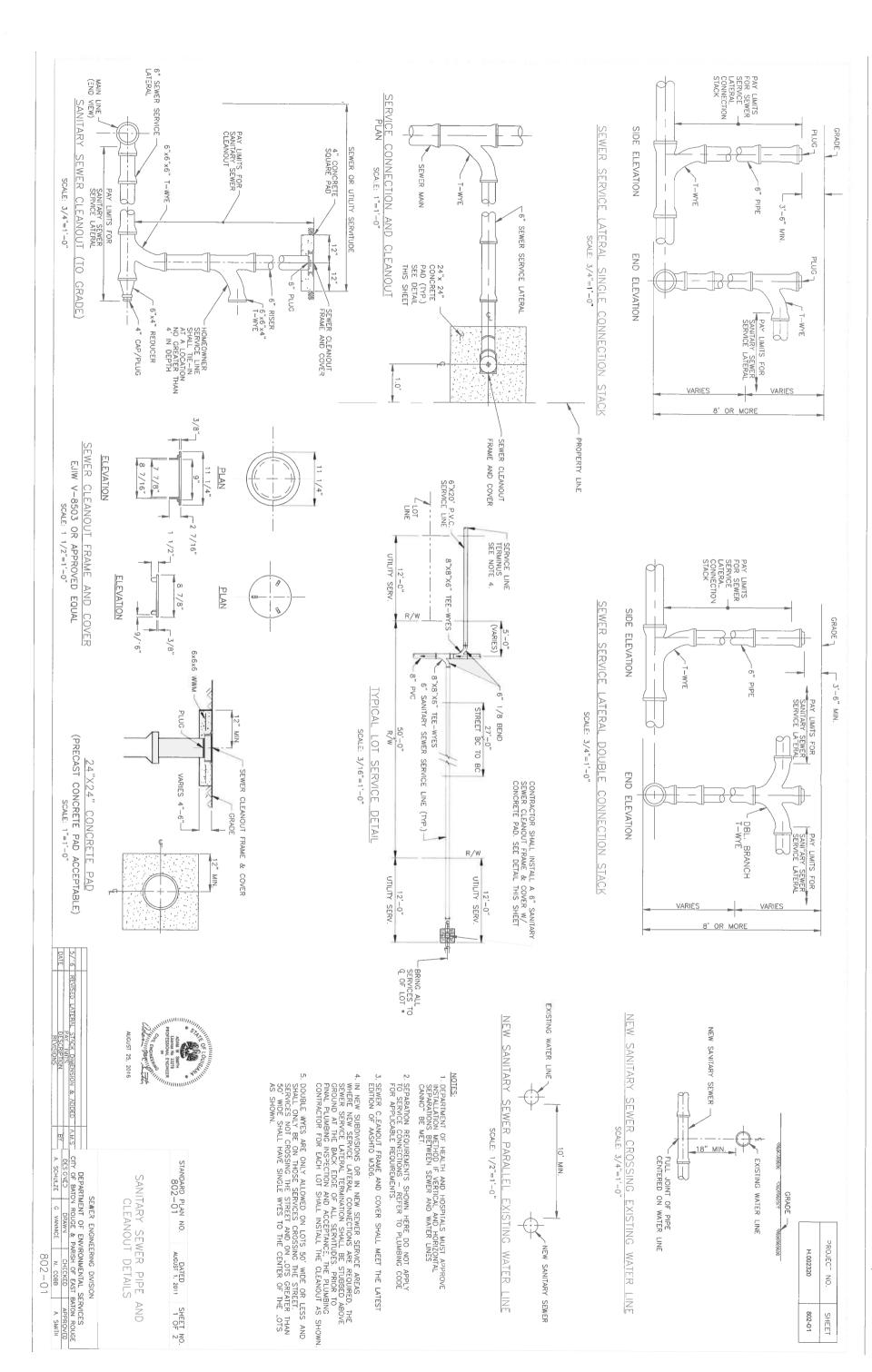


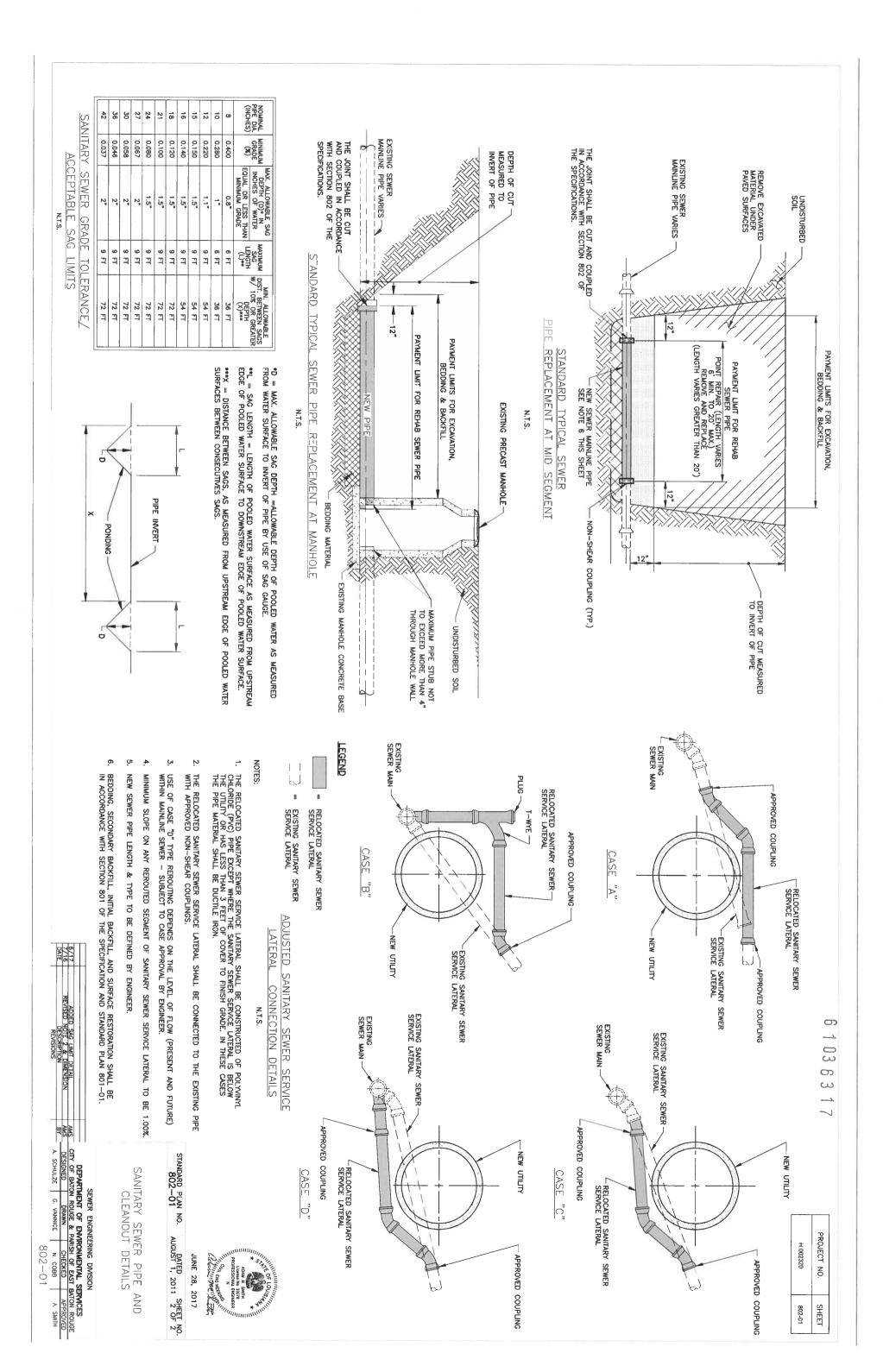


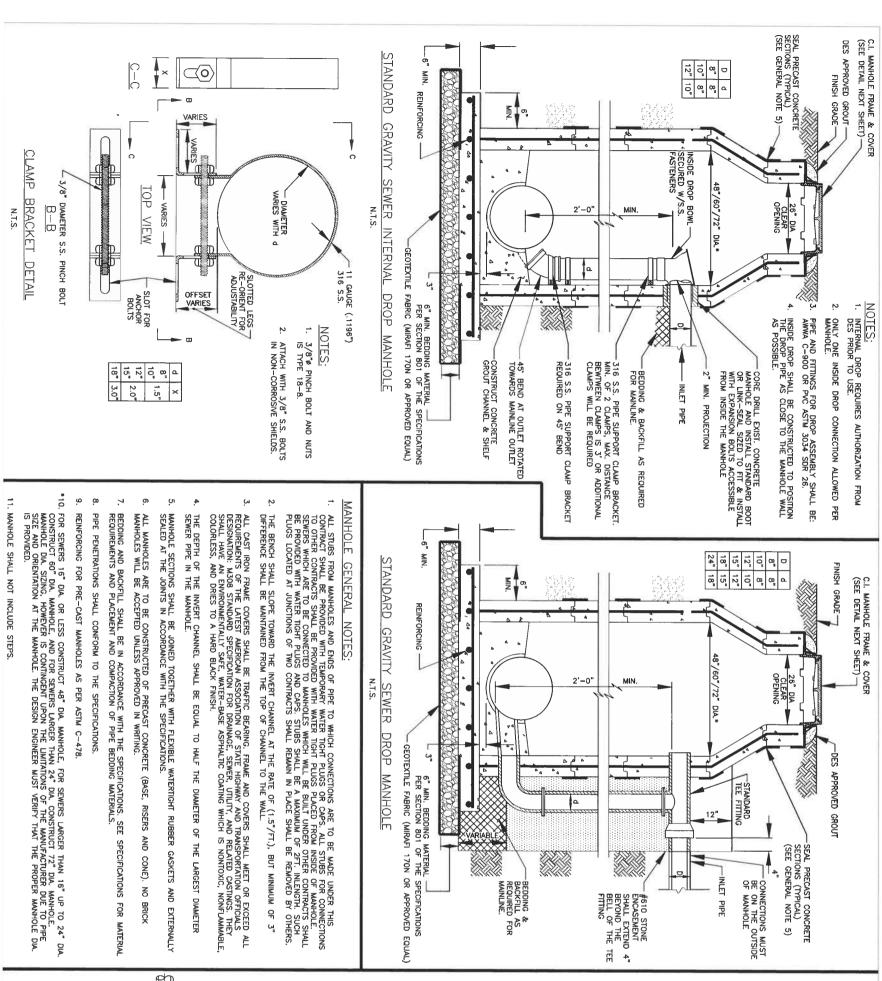


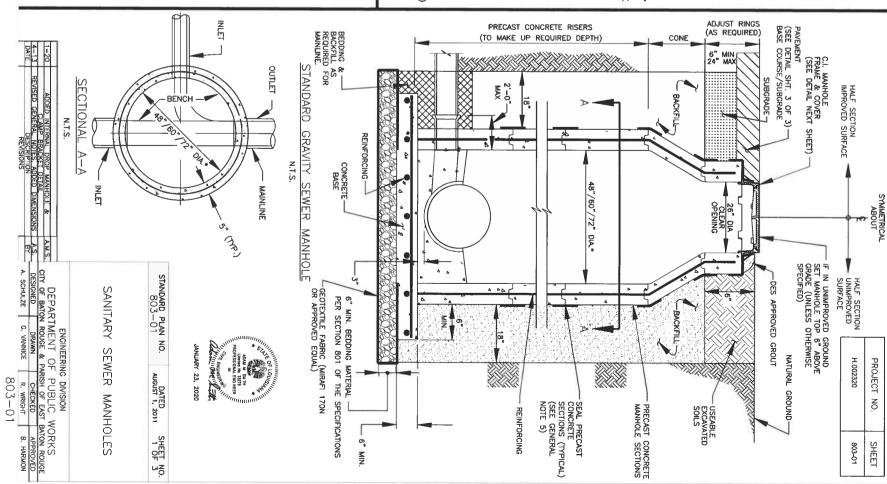
REVISION OR CHANGE ORDER DESCRIPTION

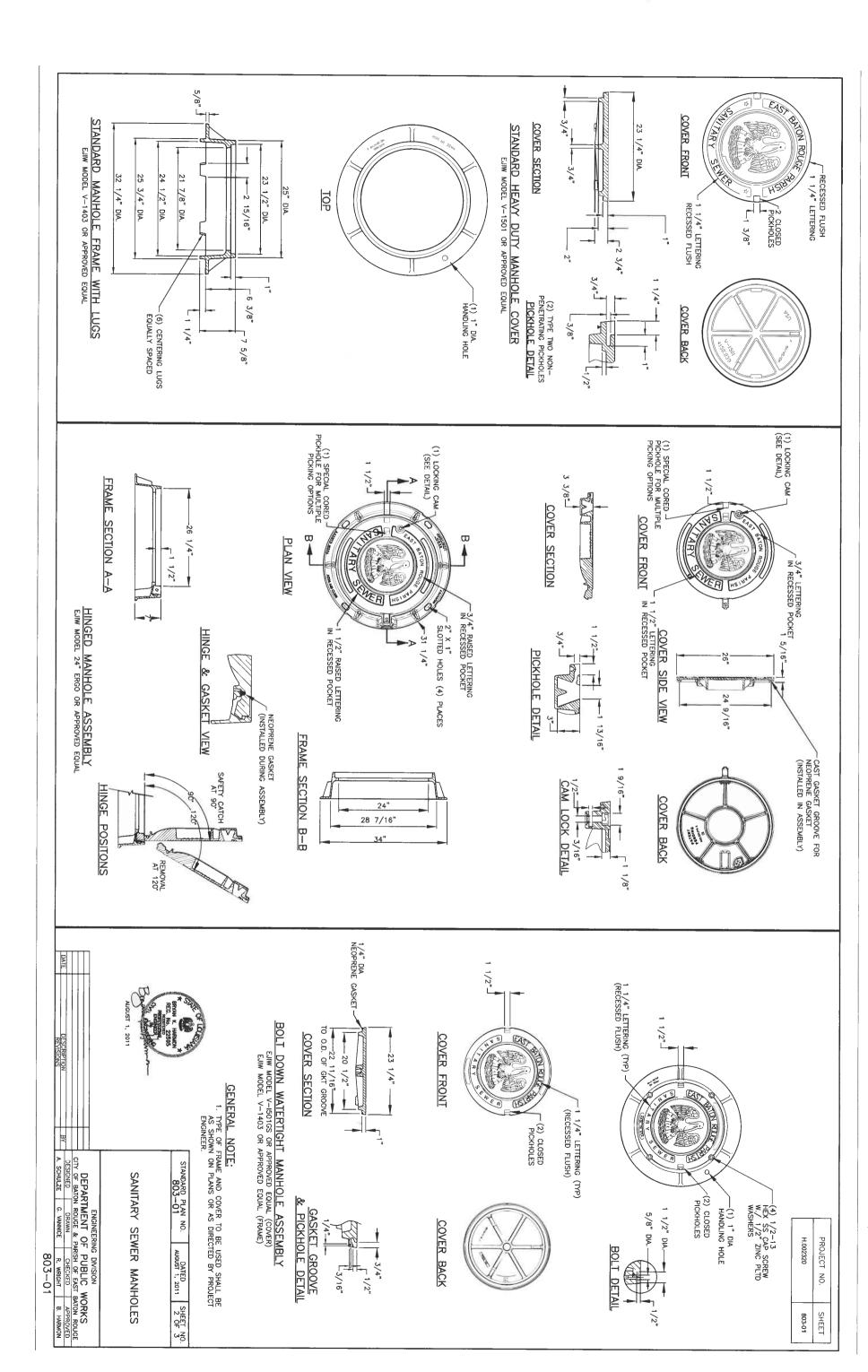


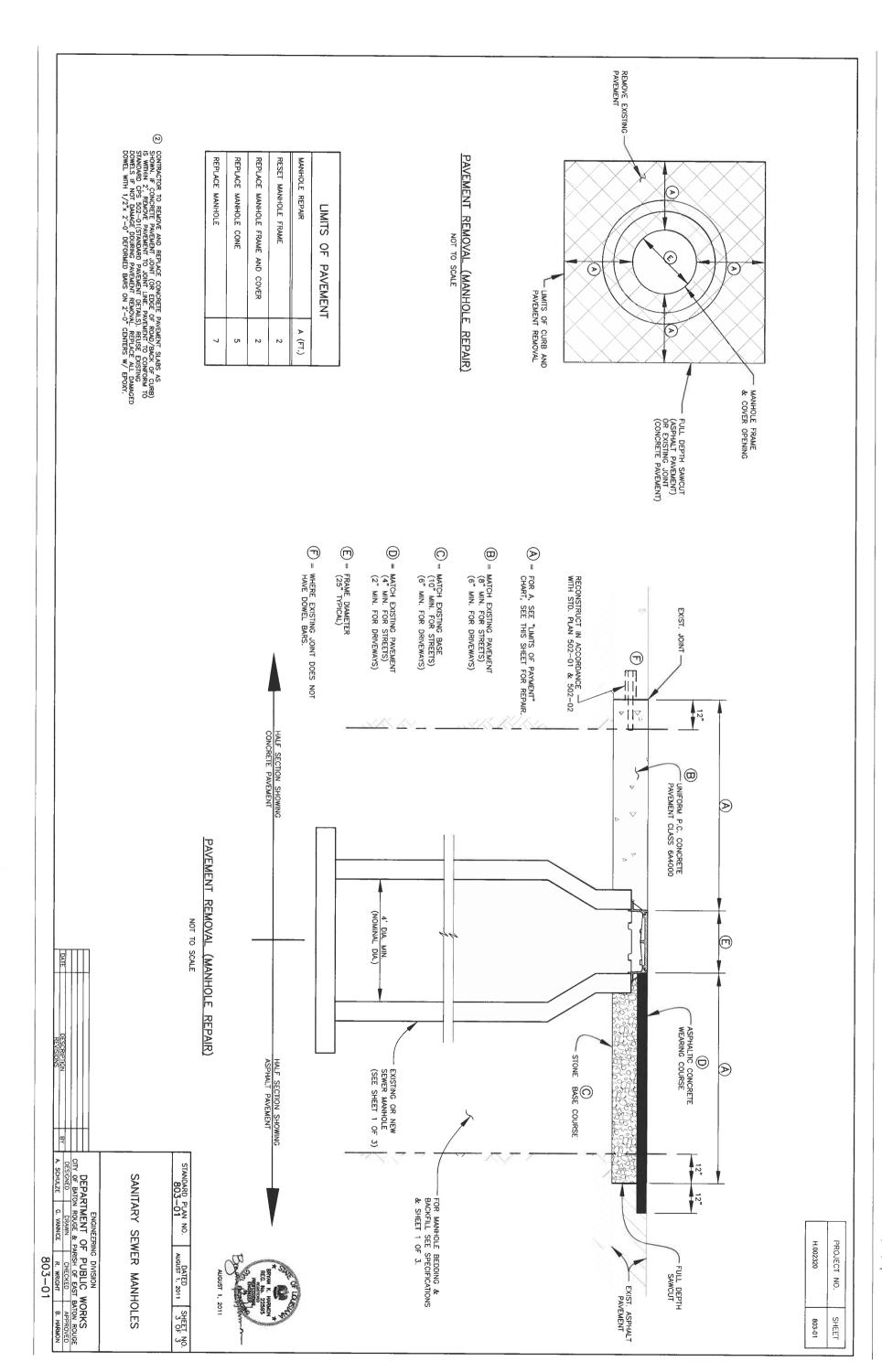






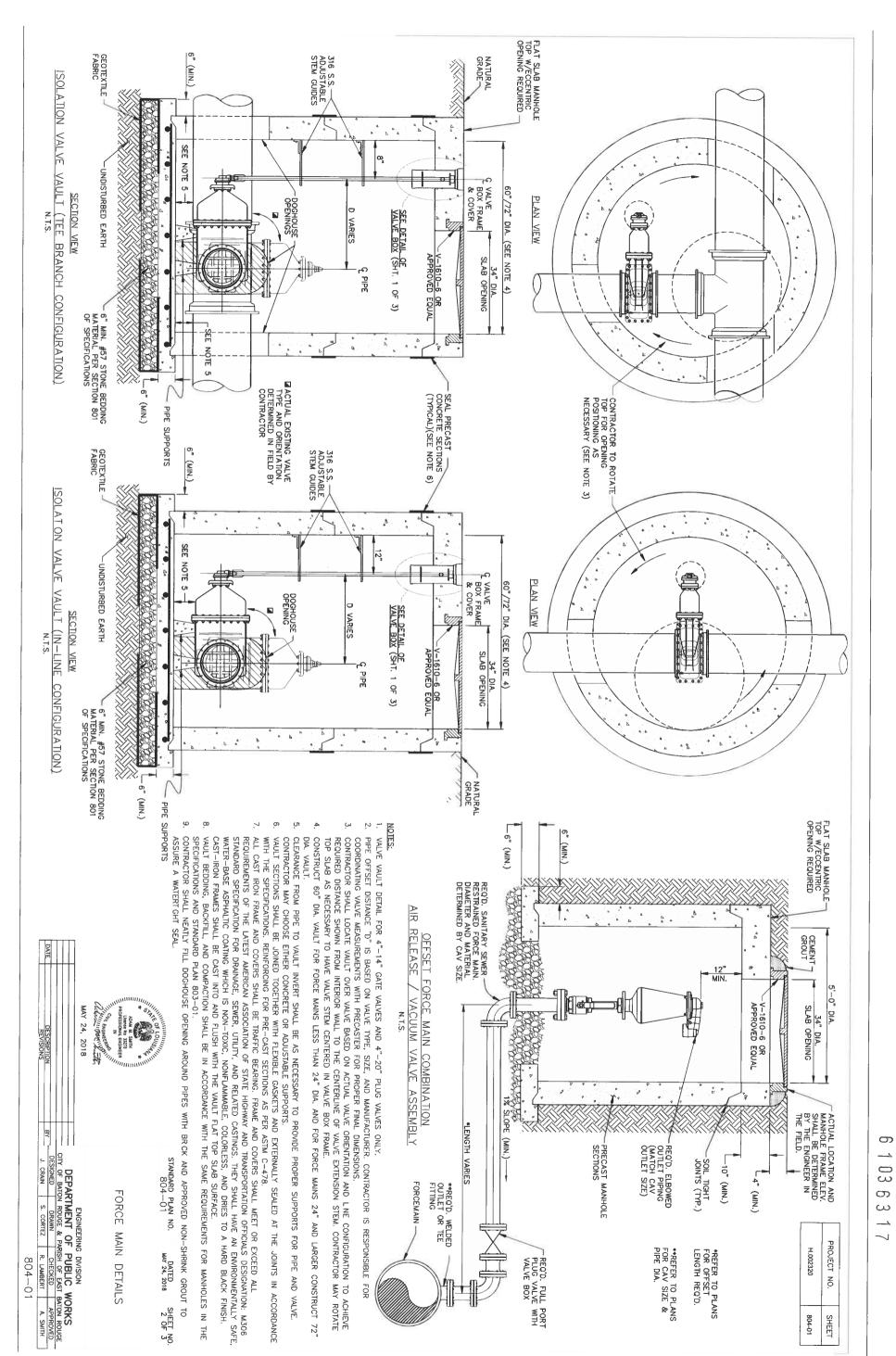






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GENERAL PROVISIONS

- MUTCD, and shall meet the NCHRP Report 350 or MASH requirements for Test Level 3 devices where applicable. All temporary traffic control (TTC) devices used shall be in accordance with the Louisiana Standard Specifications for Roads and Bridges, the
- Materials used for TTC shall be in accordance with the Louisiana Standard Specifications for Roads and Bridges and, when applicable, the LADOTD AML shall be in accordance with the Louisiana
- Placement of TTC devices shall not commence without the approval of the Engineer and until work is about to begin, unless they are covered
- Responsibility is hereby placed upon the contractor for the installation No lane closures, lane shifts, diversions or detours shall occur without the approval of the Engineer. maintenance and operation of all TTC devices called for in these

plans or required by the Engineer for the protection of the traveling

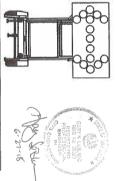
- project limits unless noted in the plans. permanent signs, pavement markings, and traffic signals public as well as all LADOTD and construction personnel. The contractor shall also be responsible for the maintenance of all public as well as all LADOTD and construction per as essential to the safe movement and guidance of traffic t in place
- The DTOE shall serve as a technical advisor to the Engineer for oll control matters.
- shall be noted in all project traffic control diaries. recommendations of the Project Engineer and the DTOE. All changes all signs and situations not addressed in the plans based on the The Chief Construction Engineer or his appointed designee shall approve
- Management Plan. All temporary traffic control plans shall comply with the Transportation all design speeds of diversions or shifts, if it differs from design plans, based on the recommendations of the Project Engineer and the DTOE. The Chief Construction Engineer or his appointed designee shall approve
- shall be installed under Item 713-01-00100. Any additional signs shown in the MUTCD and required by the Engineer
- Neither work activity nor storage of equipment, vehicles, TMAs, or materials shall occur within the buffer space.
- opposite shoulder within 500 feet of the work area. only, there shall be no conflicting operations or parking on the When a work area has been established on one side of the roadway
- Standard Specifications for Roads and Bridges.) A lighting plan shall be submitted to the Engineer 30 days prior to night work for approval. (See section 105.20 of the Louisiana
- guardrail or barriers. If the clear zone is not defined on the plan sheets, the Engineer shall verify. Parking of vehicles or unattended equipment or storage of materials. within the clear zone shall not be permitted unless protected by
- If utilized, a TMA is allowed for a maximum of 72 hours device can be substituted in its place upon approval by the Engineer shoulders less than 8 feet wide: If an NCHRP 350 Report Test should be installed within seven (7) days. On non-NHS routes with is installed. After removal of the existing guardrail, new guardrail to protect the blunt end of the bridge or column until new guardrail install and maintain an NCHRP Report 350 or MASH approved device Immediately upon removal of existing guardrail, the contractor shall roadway cannot support a Test Level 3 device, then a Test Level 2 Leve 3 or MASH device is required out the field conditions of the
- All costs associated with crash devices are to be included in 713-01-00100.
- Sight distance the left and right side shall be maintained at all times On all mainline Interstates, a minimum of 1.5 feet of paved shoulder on should be considered when placing traffic control devices

- On Interstates, a minimum of 11 foot lanes shall be maintained. On all other roadways, a 10 foot minimum travel lane should be maintained where practical
- TTC Standards are not drawn to scale.
 The contractor shall develop an internal traffic control plan approved by the Engineer prior to each phase.
- Truck restrictions such as (but not limited to) restricting lanes, oversize loads or times of travel, may be required for narrow lanes or other field conditions. PAVEMENT MARKINGS (see AML)
- project limits that are in conflict with the project signing or the required traffic movements shall be removed from the pavement by blast cleaning All pavement markings within the limits of the project or adjacent to the or grinding. (Existing striping shall not be painted over with black paint or
- If special pavement markings are needed, they shall be reflectorized, removable and accompanied by the proper signage.
- Temporary Raised Pavement Markers may be added to supplement temporary need as shown in the plans or as directed by the Engineer striping in areas of transition, in tapers, in diversions and in other areas of
- If no pay item exists for temporary markings, they shall be installed under Materials and placement of temporary pavement markings shall conform to Section 713 of the Louisiana Standard Specifications for Roads and Bridges 713-01-00100.
- emporary markings installed in the permanent configuration shall comply ADOTD pavement marking standard plans, MUTCD and/or the advent striping plans.
- CHANGEABLE striping plans.
- PORT PCMS shall be used on all interstate Highways. PCMS shall be used on all other roadways (where space is available) with an ADT greater than 20,000. should be placed on When used in advan BLE MESSAGE SIGNS (PCMS) on all interstate Highways. PCMS shall be used on re at a lane closure or a lane shift, the PCMS right hand side of the road a minimum
- determined by the Engineer on other nighways. For interstates and multi-lane highways, if vehicles are queuing beyond the 2 mile PCMS, an additional PCMS should be placed on the right hand side of the road approximately 5 miles in advance of the taper or at the end of the queue, whichever is great

distance of 2 miles in advan

the taper for interstates and to

- PCMS messages shall be approved by the DTOE. Messages Messages shall display only traffic operational, regulatory, problem/situation, location, and recommended driver action. messages. Messages should only convey information concerning guidance information. PCMS messages shall not display advertising be no more than 3 lines and 2 screens.
- PCMS should be placed as far from the traveled lane as possible. they shall be delineated with a min. 3 drum taper spaced at 20ft with a 4th drum alongside the PCMS. They shall be shielded by guardrail or barriers. If this is not possible
- If the PCMS encroaches on the improved shoulder then the contractor shall install a shoulder closure.
- When the PCMS is not displaying a work zone appropriate message guard rail or barriers, or removed pertaining to the ongoing construction project it shall be shielded by from the clear zone



NHS PCMS NCHRP.

.National Highway System

National Cooperative Highway Research Program

Portable Changeabl

e Message Sign

AMT

TMC

.Temporary Traffic .Temporary Traffic

Control Standard Plans

Traffic Management Truck Mounted Attenuator

Center

ALL SITUATIONS SHALL BE REVIEWED AND/OR DESIGNED BY THE CONTRACTORS ARE RESPONSIBLE FOR COMPLYING WITH ALL TTC TTC STANDARDS SHOW MINIMUM CONSTRUCTION SIGNING. E ENGINEER.
C STANDARDS.

SPEED LIMITS

• The Engineer may approve a 10 posted speeds of 45 mph or greater and for any construction, maintenance or utility operation that requires one or more of the mph drop in the speed limit for

Work is in progress in the The condition of the traveled way is degraded due to milled surfaces or uneven travel lane lines greater than 1.5 inches immediate vicinity of the travel

B

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Workers present on the shoulder within 2 feet of the edge way requiring lane closures than 11 feet. or lane width reductions less

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- The reduced speed zone shall only apply to those portions of the project limits affected. The of the traveled way without barrier protection. Engineer may allow SPEED LIMIT
- If the speed limit is reduced, speed limit signs shall be placed: WHEN FLASHING signs to supplement reduced speed zones. beyond major intersections
- at one mile intervals in rural areas;

(B) 8

- (C) at half mile intervals in urban areas.
- shall be installed displaying the original speed limit prior to construction At the end of the reduced speed zone, a speed limit sign
- For all other speed limit reductions not listed above, the Project approval. the Chief Construction Engineer Engineer and the DTOE shall recommend the speed reduction to or his appointed designee for
- If the speed limit is reduced more than 10 mph, placement of the signs shall be re-evaluated according to the MUTCD.

FLASHING ARROW BOARDS

- All Flashing Arrow Boards shall be 4 feet by 8 feet and Type C. placed on the shoulder. When
- Flashing arrow boards shall be delineated with retroreflective TTC • Flashing Arrow Boards should be there is no shoulder or median a as close to the beginning of the placed within the closed lane behind the channelizing devices and area, the arrow board shall be taper as practical.
- devices. arrow board encroach in the traveled way.
- At no time shall the arrow board
 When Flashing Arrow Board signs shielded by guard rail or barriers or removed. are not being used, they shall be
- Arrow boards shall only be used shall not be used for lane shifts. for lane reduction tapers and

ROL

DTOE B.O.P. MASH E.O.P. ANS LADOTD MUTCD ATSSA Associated General Average Daily Traffic .American Association of State Highway and Approved Materials Transportation Officials Louisiana Department of Transportation and Develo District Traffic Operations Engineer Beginning of Projec Manual on Uniform AASHTO Manual for End of Project American Traffic Safety Services Association American National Standards Institute Traffic Control Devices Assessing Safety Hardware 1SI Contractors of America

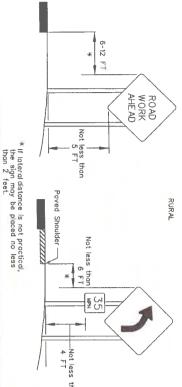
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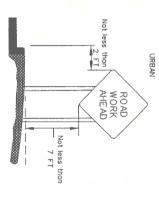
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- Signs shown in the TTC illustrations are typical and may vary with All signs used for temporary traffic control shall follow the plans, the LADOTD TTC Standards and the MUTCD.
- One Type B High Intensity light shall be used to supplement the first nighttime operations (See AML). sign (or pair of signs) that gives warning about a lane closure during
- Mesh rollup signs shall not be allowed on any project Contractor shall use caution not to damage existing signs which remain in place. Any LADOTD signs damaged by work operations shall be replaced by the contractor under item 713-01-00100.
- At no time shall signs warning against a particular operation All signs (permanent and temporary) shall be removed or completely place once the operation has been completed or where applicable. (Burlap is not an acceptable material to c covered with a strong, lightweight, opaque material when no longer signs). be left in
- Warning signs used for temporary traffic controls shall meet the has been removed. following guidelines unless otherwise noted in the plans: 8
- see the Louisiana Standard Specifications for Roads and Bridges size shall be 48 inches by 48 inches. and the AML for sheeting information.
- area inaccessible to traffic and not visible to the driver. When portable sign frames are not in use, they shall be moved to an lateral distance of signs shall be a minimum of 6 feet from the 2 feet from the back of curb in urban areas (see diagram). edge of shoulder or edge of pavement if no shoulder exists and

Left side mounted signs will not be required for roadways with a center

- VinyIrollup signs may be used if work zone is in place for 12 hours or less, there are no more than 2 lanes in each direction and if signs meet all size, color, retroreflectivity and NCHRP 350 Report or MASH left turn lane and for undivided roadways.
- On divided highways, signs shall be placed on the right and the left as ullet All signs shallbe visible to the drivers (i.e. no obstructions such as on street parking or other traffic control devices shall block the sign).
- 1 foot portable sign stands may be used if the work zone is in place direction. shown on the TTC standards. for 14 hours or less and there are no more than 2 lanes in each
- Sign posts: -Signs over 10 square feet shall be mounted on 2 rigid posts -Signs measuring 10 square feet or less shall be mounted on 1 rigid post
- -Signs over 20 square feet shall be mounted on at least 3 rigid posts Rigid sign supports shall be driven to a minimum depth of 3 feet. (If splicing is required, see Allowable Lap Splice U-channel Post.)
- For sign height, see the Rural and Urban diagrams:





LANE CLOSURES

- All proposed lane, road or shoulder closures shall be reviewed by the DTOE and approved by the Engineer.
- Two lane, two-way highways shall have a maximum work area of two miles; all other roadways shall have a four mile maximum work area.
- A queue analysis shall be performed prior to approval of lane closures on Interstates according to Section 6A.1 of the Traffic Engineering Manual. • Closure plans and times shall be turned in to the Engineer for review ding to the following:

 5 working days minimum if traffic controlplan has been approved 9
- or is contained in the plans. 10 Yorking days minimum and a traffic control plan must be
- submitted for lane closures not addressed in the plans. dates to the DTOE, Project Engineer, the LADOTD TMC operator
- Weekly updates to lane closures to update and the regional TMC operator (if applicable) will be required for all ongoing Project
- Daily updates to the DTOE will be required for all projects ec. Engineer and TMC operator (if applicable) active closures are in place.

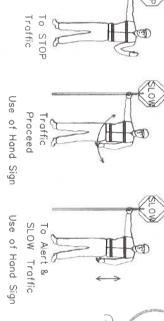
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National Cooperative

Highway Research Program

REVISION OR CHANGE ORDER DESCRIPTION

- All flaggers shall be qualified.
- are qualified to perform flagging duties. The contractor shall be responsible for training that all flaggers
- When utilized, a flagger shall use a minimum 18 inch octagonal shape sign approved Force. The contractor shall be responsible for getting the by ATSSA or other courses approved by the LADOTD Wor A Qualified Flagger is one that has completed courses those offered
- vest during day time operations and ANSI Class 3 Lime Green ensemble on a minimum 6 foot stop/slow paddle and wear ANSI Class 2 Lime Gree during night operations.
- In all flagging operations, the flagger must be visible from the flagger advance warning sign.
- Flaggers shall not be used on the Interstate.



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PEDESTRIAN CONSIDERATIONS

- If the TTC zone affects the movement of pedestrians, adequate pedestrian access and walkways shall be provided either through the TTC zone or a designated alternate route.
- Pedestrians should be provided characteristics of the existing path that replicates as nearly as practical the most desirable sidewalk(s) or footpath(s). with a convenient and accessible
- Advance notification of sidewalk the maintaining agency. closures shall be provided by

REFERENCES

• The contractor shall be responsible for understanding all rules and requirements in the current edition of the following documents:

PARISH

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SERIES

7/2/18

Louisiana Standard Specifications for Roads and

Manual on Uniform Traffic Control Devices for Bridges. http://www.dotd.la.gov/highways/specifications/ Streets and Highways (MUTCD)

2)

LADOTD Approved Materials List (AML) Manual http://mutcd.fhwa.dot.gov/ http://wwwsp.dotd.la. gov/Inside_LaDOTD/Divisions/

3)

http://wwwsp.dotd.la. Misc:/20Documents/Traffic:/20Engineering/20Manual.pdf Divisions/Engineering/ LADOTD Traffic Engir Engineering/Materials. gov/lnside_LaDOTD/ Traffic_Engineering/ _Lab/Pages/Menu_QPL.aspx

4)

- 0 NCHRP Report 475: Onlinepubs/nchrp/nchrp_rpt_350-a.pdf Traffic Control Devices". http://onlinepubs.trb.org/ (NCHRP) Report 350: and Planning Nighttime Highway Construction and A Procedure for Assessing 'Guidelines for Work Zones
- 7) Maintenance". http://onlinepubs.trb.org/Onlinepubs/nchrp/ nchrp_rpt_475.pdf NCHRP Report 476: "Guidelines for Design and
- Operation of Nighttime Traffic Control for Highway Maintenance". http:// nchrp_rpt_476.pdf onlinepubs.trb.org/Onlinepubs/nchrp/
- NCHRP Report 498: for Nighttime Highway Work". http://onlinepubs.trb.org/ onlinepubs/nchrp/nchrp_rpt_498.pdf "Illumination Guidelines
- Transportation Officials (AASHTO) Roadside Design American Association of State Highway and
- U.S. Department of T Operations at Night. Administration Traffic Transportation Federal Highway http://www.dot.state.il.us/blr/1023.pdf Control Handbook for Mobile

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Control Devices and

Features.

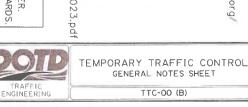
(ATSSA) Quality Guid

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American Traffic Safety Services Association

elines for Work Zone Traffic

ALL TTC STANDARDS SHOW MINIMUM CONSTRUCTION SIGNING.
ALL SITUATIONS SHALL BE REVIEWED AND/OR DESIGNED BY THE ENGINEER.
CONTRACTORS ARE RESPONSIBLE FOR COMPLYING WITH ALL TTC STANDARDS





CHANNELIZING DEVICES

- 28 inch traffic cones are not allowed on: The following devices may be used as channelizing devices: Tubular Markers, Vertical Panels, Cones, Drums and Super Cones.
- Interstates
- During nighttime operations, 28 inch and 36 inch cones are not 2) Highways with speeds greater than 40 mph.
- Retroreflective material pattern used on super cones shall match that used on drums.

- Tangent Areas:

 A) <u>Standard Spacing</u>: See Standard Device Spacing and Buffer Space table.
- 9 В standard spacing. All other devices are at Daylight Operations: Drums and super cones are spaced at standard spacing.
- spacing are the only devices allowed. Nighttime Operations: Drums and supercones
- Nighttime Operations: Drums (at standard spacing) are the All other devices are $\frac{1}{2}$ standard spacing. Daylight Operations: Drums are spaced at standard spacing Space table.

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Standard Spacing: See Standard Device Spacing and Buffer

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- devices in the taper as well as the first two devices in the tangent at night, (see the AML). only devices allowed. steady burn lights shall be used on all channelizing
- Typical channelizing device lateral placement (do not include when it is used as a divider for opposing directions of traffic) shall be 2 feet off the lane line in the closed lane or shoulder.
- Devices may be adjusted laterally to accommodate ongoing work in the immediate vicinity but must be returned to the closed lane after the work activity has moved.
- Channelizing devices in each taper shall be of the same type. Channelizing devices on the lane line shall be of the same type

TRAFFIC CONE VERTICAL PANEL ZZZZ to 6 12 IN above the roadway surface ROADWAY

ALL TTC STANDARDS SHOW MINIMUM CONSTRUCTION SIGNING.
ALL SITUATIONS SHALL BE REVIEWED AND/OR DESIGNED BY THE ENGINEER.
CONTRACTORS ARE RESPONSIBLE FOR COMPLYING WITH ALL TTC STANDARDS.

For Interstate ramps, refer to non-Interstate drop offs

shall be considered in the design.

TYPE III BARRICADES

- Only Type III Barricades shall be used.
- All barricades shall use Type 3 High Intensity Sheeting on both sides of the barricade.

MPH

150 105

165 225

245

STANDARD DEVICE SPACING AND

BUFFER SPACE

MERGING TAPER LENGTH (L)

- All barricades shall be a minimum of 8 feet in length and must meet NCHRP Report 350 or MASH requirements.
- When used for overnight closures, two Type B High Intensity Lights shall supplement all barricades that are placed in a closed lane or that extend across a highway. Two Type A Low Intensity Lights may be used in urban areas if approved by the Engineer (See AML)
- When signs and lights are to be mounted to a barricade, they must meet NCHRP Report 350 or MASH requirements.

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200 250 305 360 425 495

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630 585 540 495 450 405 184

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820 645 730 55 50

- A truck with a TMA may be substituted for a barricade when workers are present.
- Barricades shall be placed: 8 at the beginning of a closed lane or shoulder and at 1,000 closure after the buffer space and one shall be placed in the middle of the lane closure.) (One barricade shall be placed at the beginning of the lane placed if the lane or shoulder closure is less than 2,000 feet. must remain closed. A minimum of 2 barricades shall be foot intervals where no active work is ongoing and the lane

25 NPH PH

32 42

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SHIFTING 675

LENGTH (1/2

STANDARD DEVICE SPACING IN FEET

- (B) before each or group of unfilled holes or holes filled with temporary material.

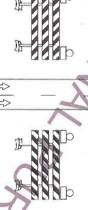
 before uncured concrete.
- in front of piles culverts and equipme crossover. not block sight distance.) of material (dirt, aggregate, broken concrete), uipment which is near the work zone.

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in the closed

lane on each side of every intersection and



IIC for DROP-OFFS

NON-INTERSTATE	STATE	0
Average	Current Posted Speed (Prior to Construction)	onstruction)
Drop-off	> 45 MPH	≤ 45 MPH
\ \ \ \	Low Shoulder Sign	Low Shoulder Sign
C	(Optional)	(Optional)
> 3 IN	Shoulder Drop Off Sign & Edge Lines or	Shoulder Drop Off Sign
≤ 6 IN	Shoulder Drop Off Sign & Channelizing Device	allogides brob oil aldi
> 6 IN	No Shoulder Sign, Edge Lines	No Shoulder Sign &
NI 0 ≥	& Vertical Panel	Channelizing Device
NI OI V	Concrete Barrier (if drop off is < 12 FT	No Shoulder Sign &
	from edge of travellane) & Edge Lines	Vertical Panel
INTERSTATE		

If a port	0 114	/ G IN	≤ 6 !N	> 2 IN	1 1	0100-011	
If a portable concrete barrier will be required then the deflection	of travellane), Shoulder Drop Off Sign, & Edge Lines	Concrete Barrier (if drop off is < 12 FT from edge	Shoulder Drop Off Sign & Channelizing Device	Shoulder Drop Off Sign & Edge Lines or	(Optional)	Low Shoulder Sign	
on &	5-27-18	Hours By	THE THE STATE OF T	PROTESSIONAL	REG NO 28220	A STATE OF THE PARTY OF THE PAR	A STATE OF THE PARTY OF THE PAR

Shoulder Drop Off Sign & Channelizing Concrete Barrier (if drop off is < 12 FT (Optional) Shoulder Drop Off Sign & Edge Line Sign SE CHILL

of travellane), Shoulder Drop Off Sign, & hex bolts spaced equally

3	70	65	60	55	50	45	40	35	30	25	MPH	construction)	SPEED	75	70	65	60	55	50	45	40	35	30
50	47	44	40	37	34	30	~	-4	10	7	2		SHOULDER	75	70	65	60	55	50	45	27	21	15
8	94	87	80	74	67	60	36	28	20	4	4		DER	150	140	130	120	011	100	90	54	4	30
150	140	130	120	011	100	90	54	4	30	2	6	Shoulder	TAPER	225	210	195	081	165	150	135	80	62	45
200	187	174	160	147	134	120	72	55	8	28	00			300	280	260	240	220	200	180	107	82	60
250	234	217	200	184	167	150	89	68	50	35	ő	Width (F	LENGTH (1/3)(L	375	350	325	300	275	250	225	134	02	75
300	280	260	240	220	200	180	107	82	60	42	2	J		450	420	390	360	330	300	270	160	123	90
40	40	40	40	40	40	40	40	35	30	20	Along Toper	ONITALIC	STANDARD DEVICE	40	40	40	46	45	40	40	40	35	30
80	80	80	80	80	80	80	80	70	60	40	Along	N PCE	D DEVICE	80	80	80	80	80	80	80	80	70	60
820	730	645	570	495	425	360	305	250	200	155	FT	SPACE	BUFFER	820	730	645	570	495	425	360	305	250	200

(MIN. 6 channelizing devices per lane equally spaced 20 feet apart.) See TTC Standards for flagger taper. Air termination and flagger tapers are 100 feet. for taper formulas.

ALLOWABLE LAP SPLICE FOR U-CHAN U-Channel posts may be spliced when The upper section shall overlap the I

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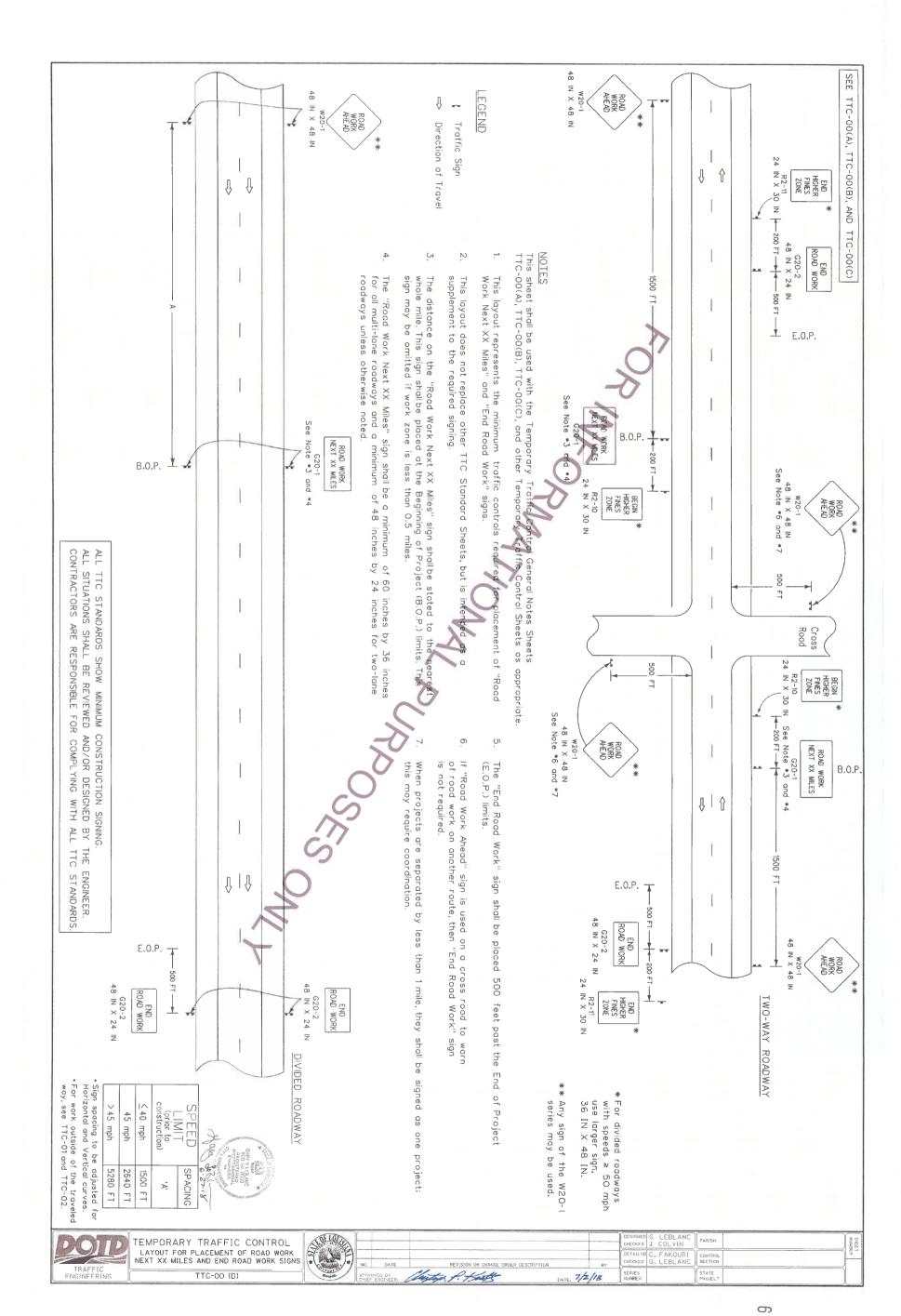
See MUTCD

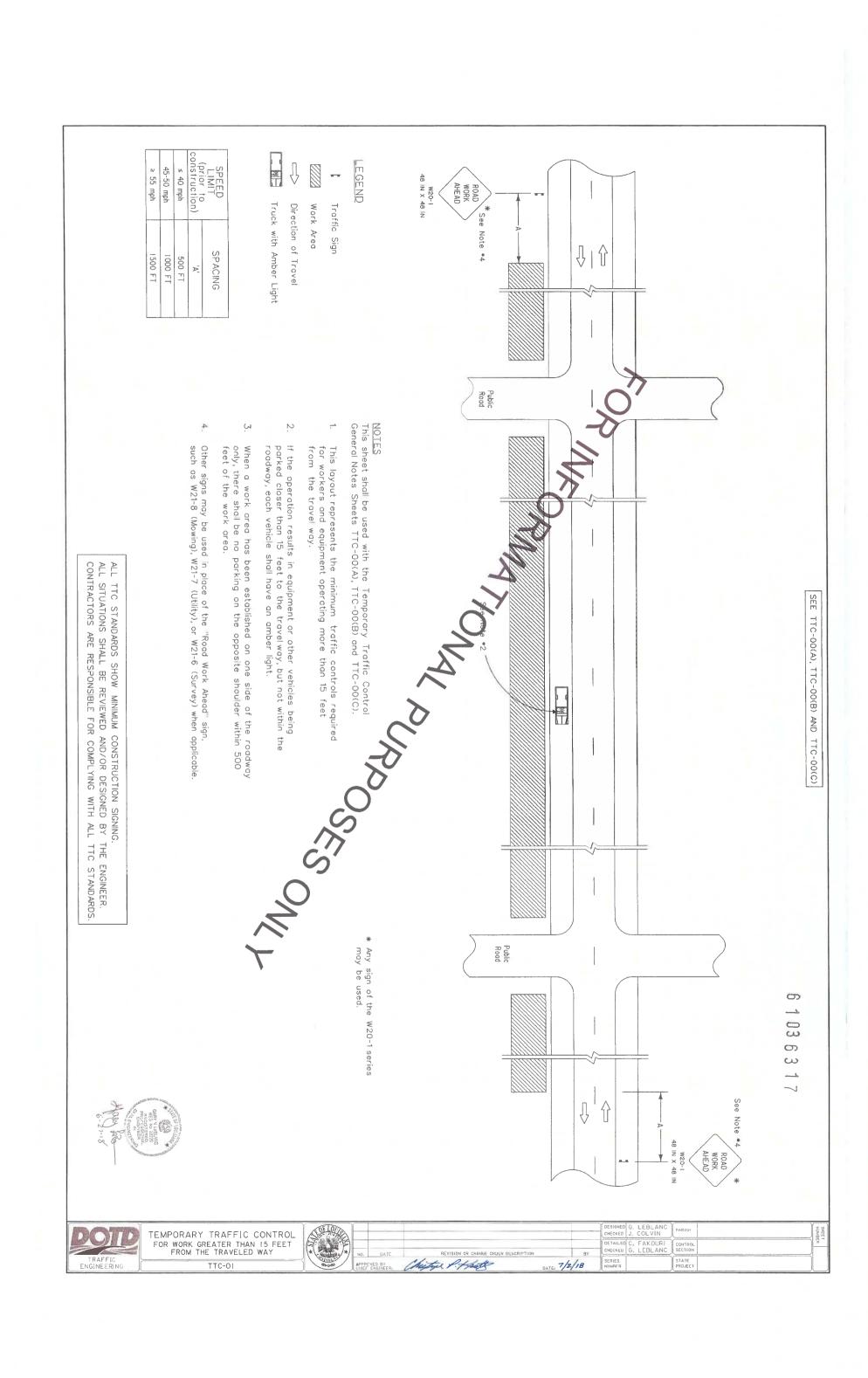
be a minimum of 24 inches inches. The bottom edge of the sections shall be secured with at least four $\frac{5}{16}$ inch diameter above the ground. The spliced upper section of the splice shall

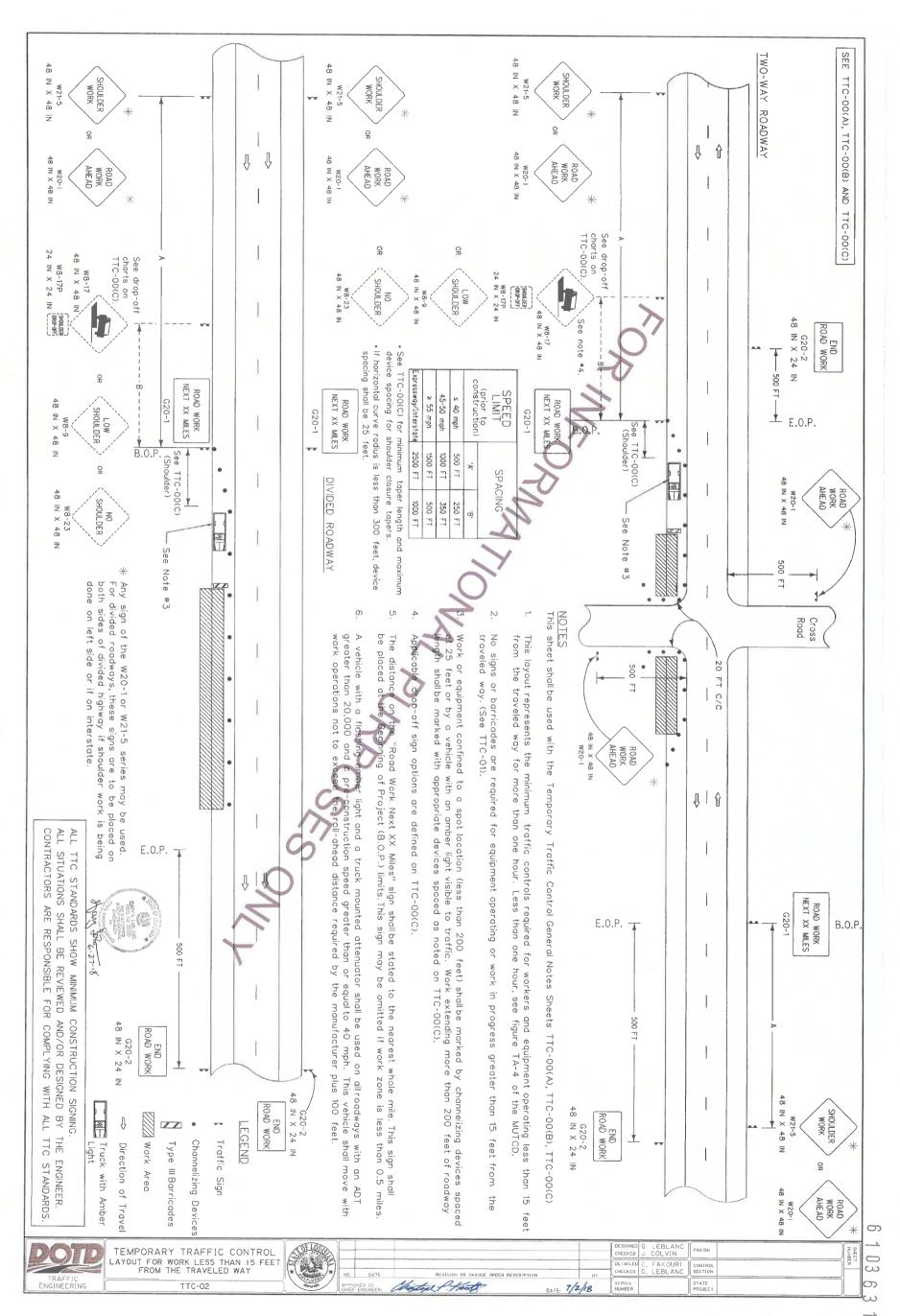


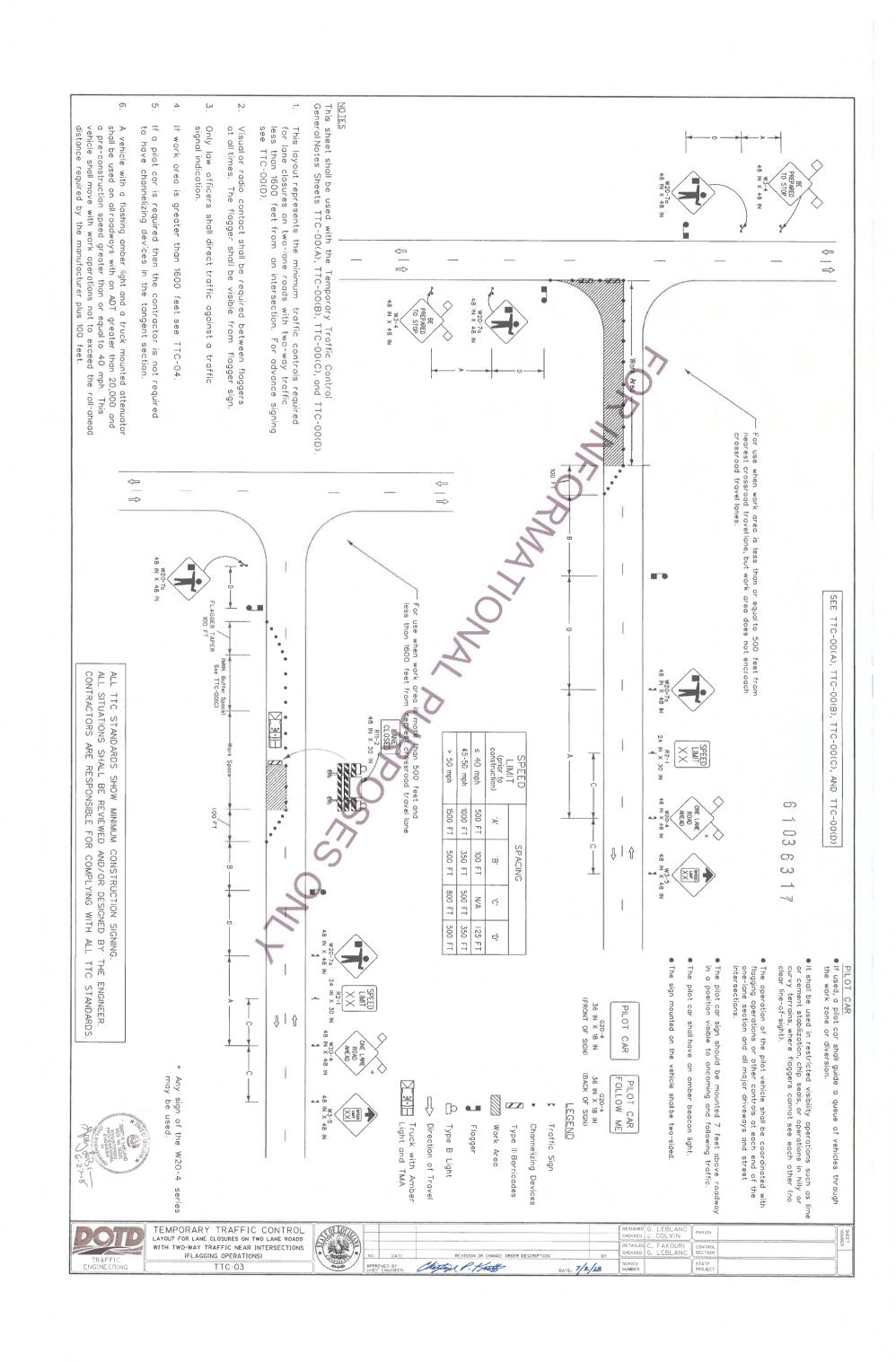
FRONT VIEW MIN. SIDE VIEW	ANNEL POST ere long lengths are required. lower section by at least 24	re 100 feet. s equally spaced 20 feet apart.) er.
	ARY TRAFFI NERAL NOTES	

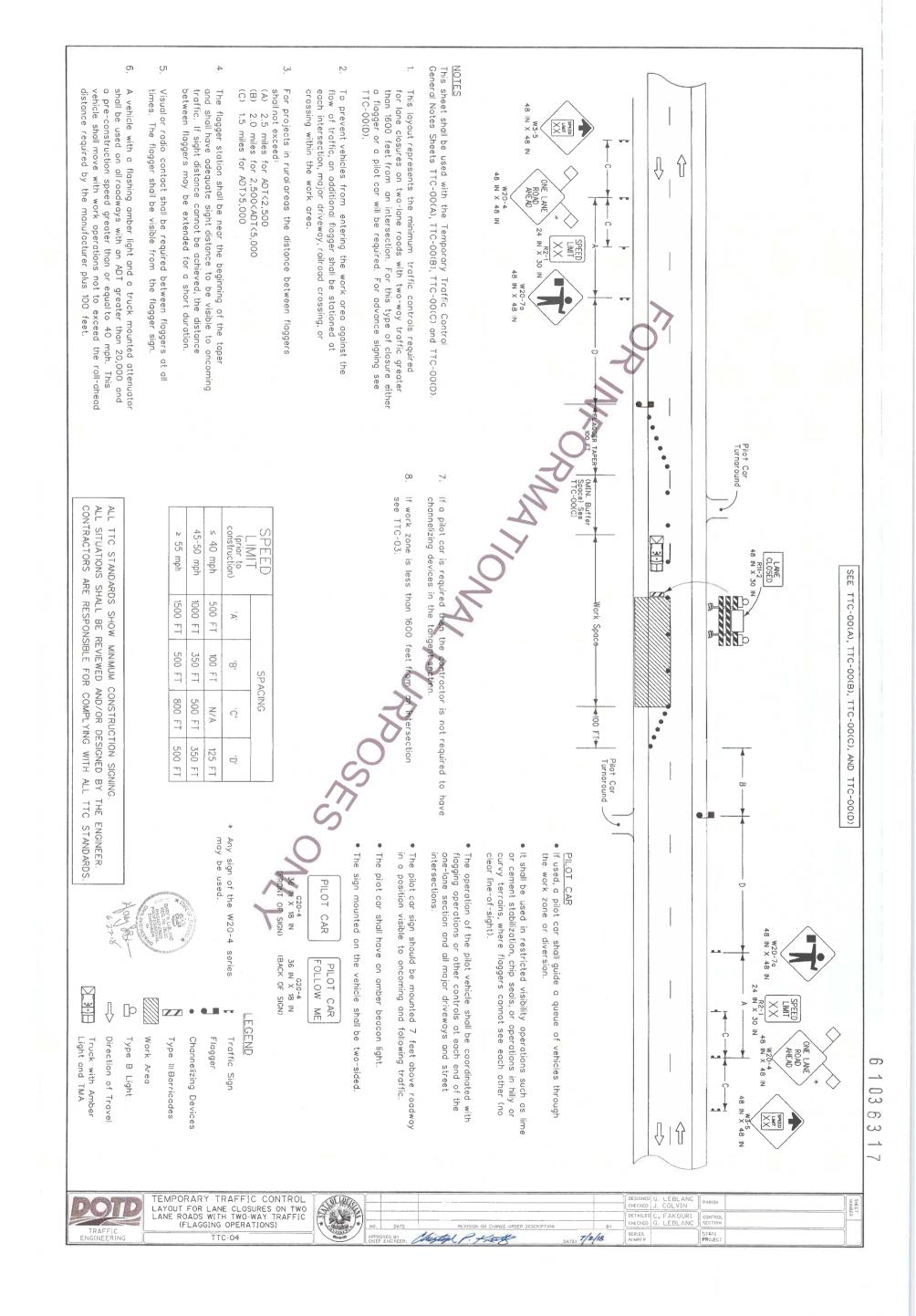
05100				DESIGNED G. LEBLANC)(
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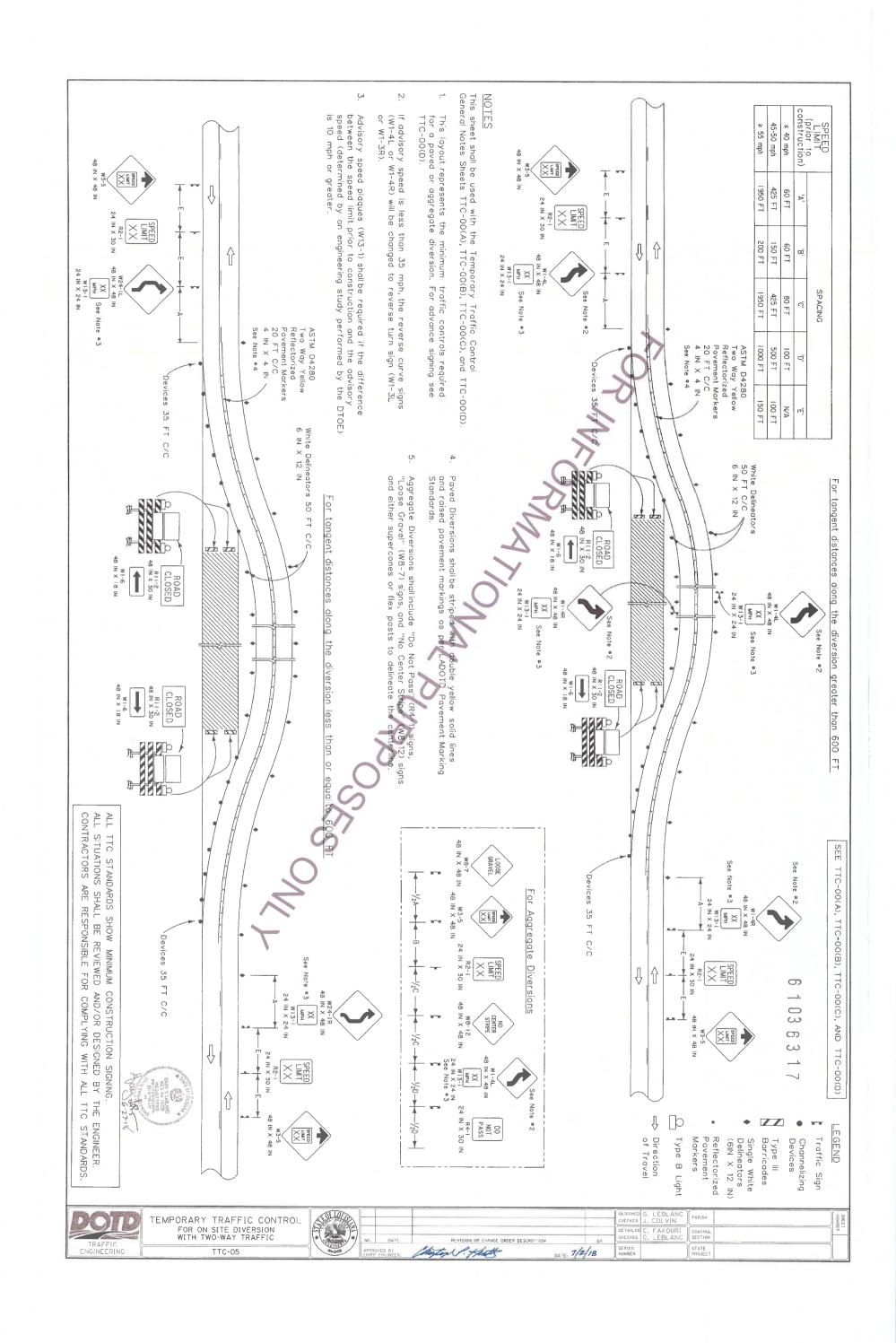


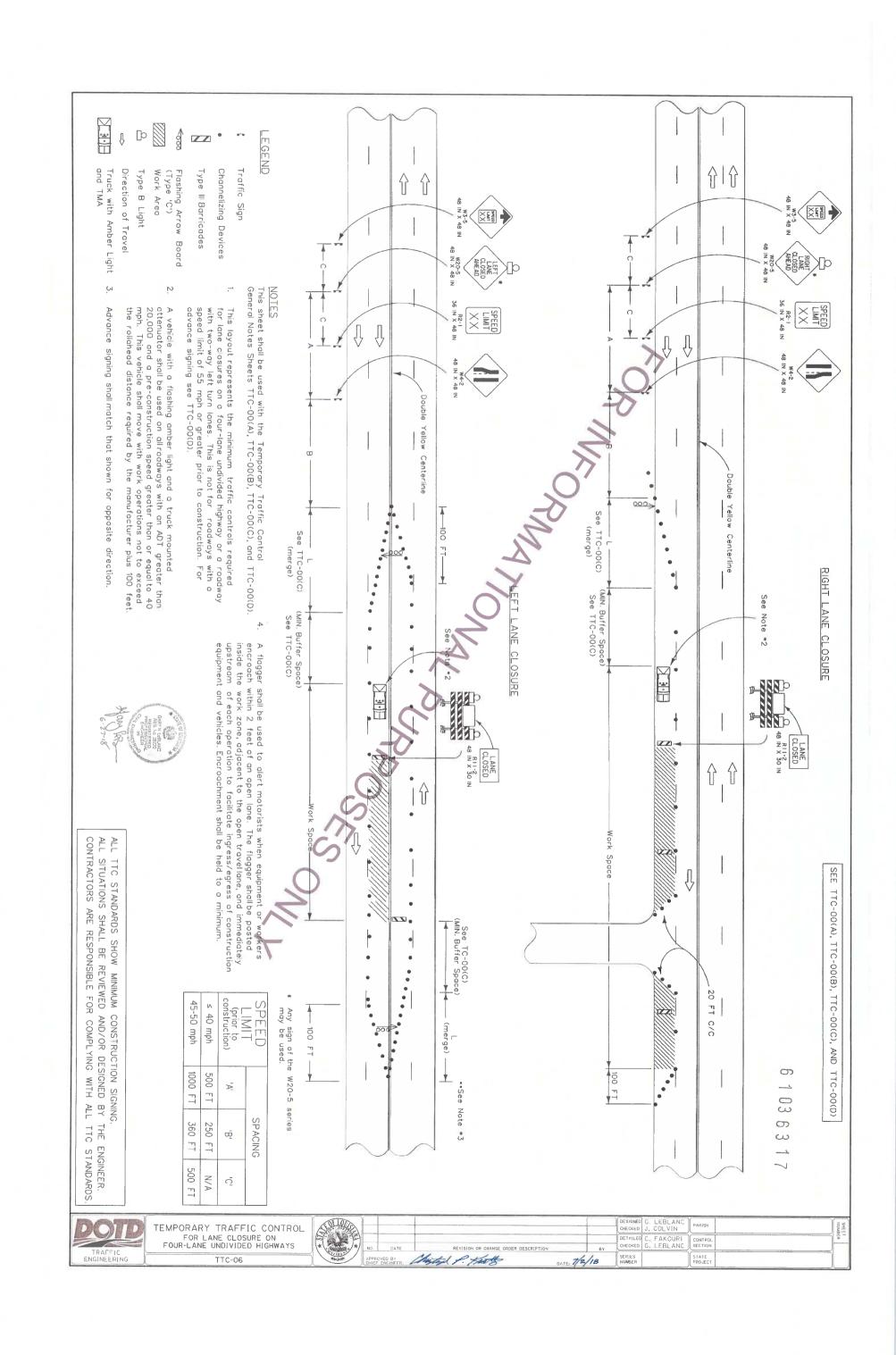


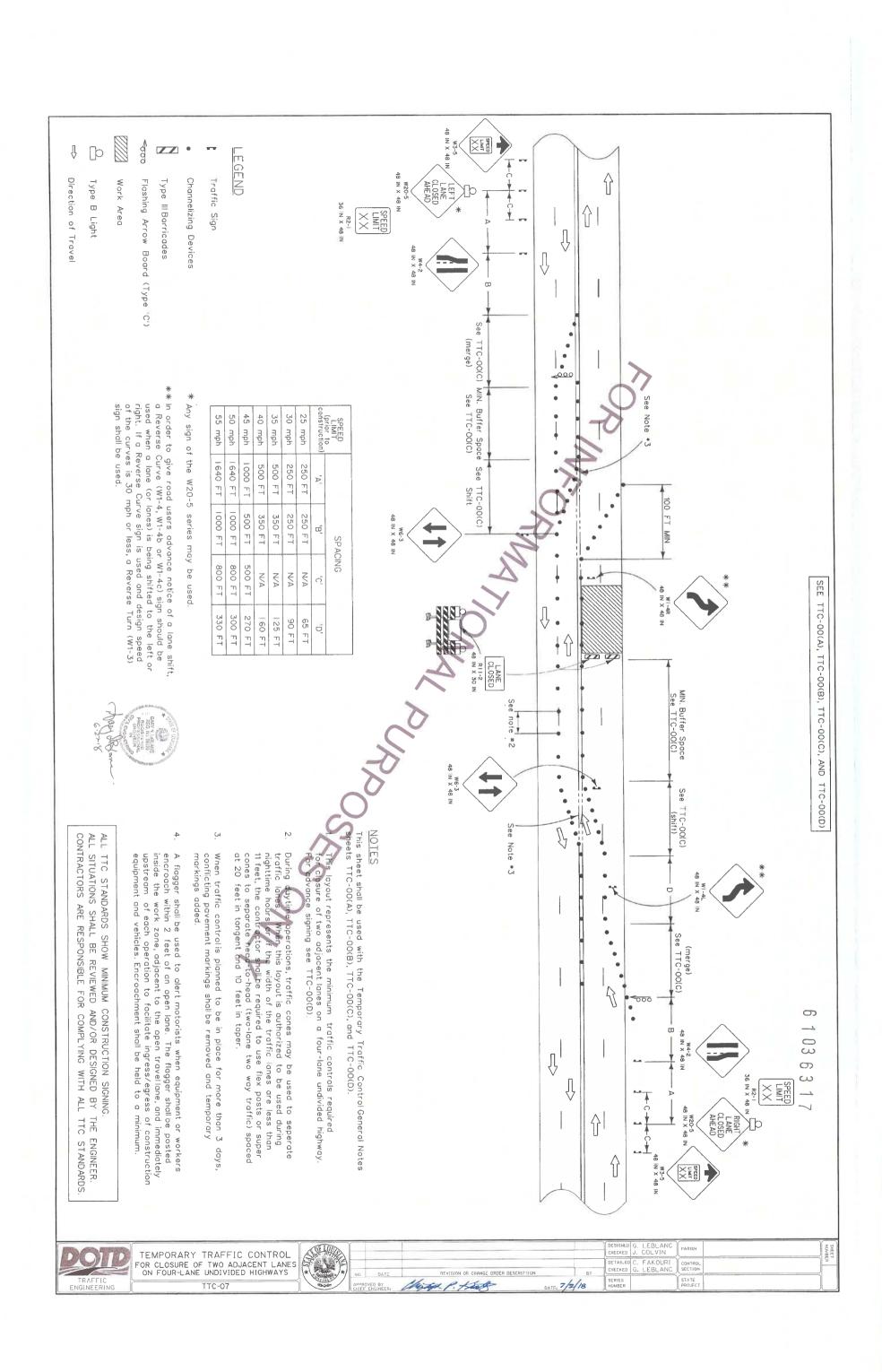


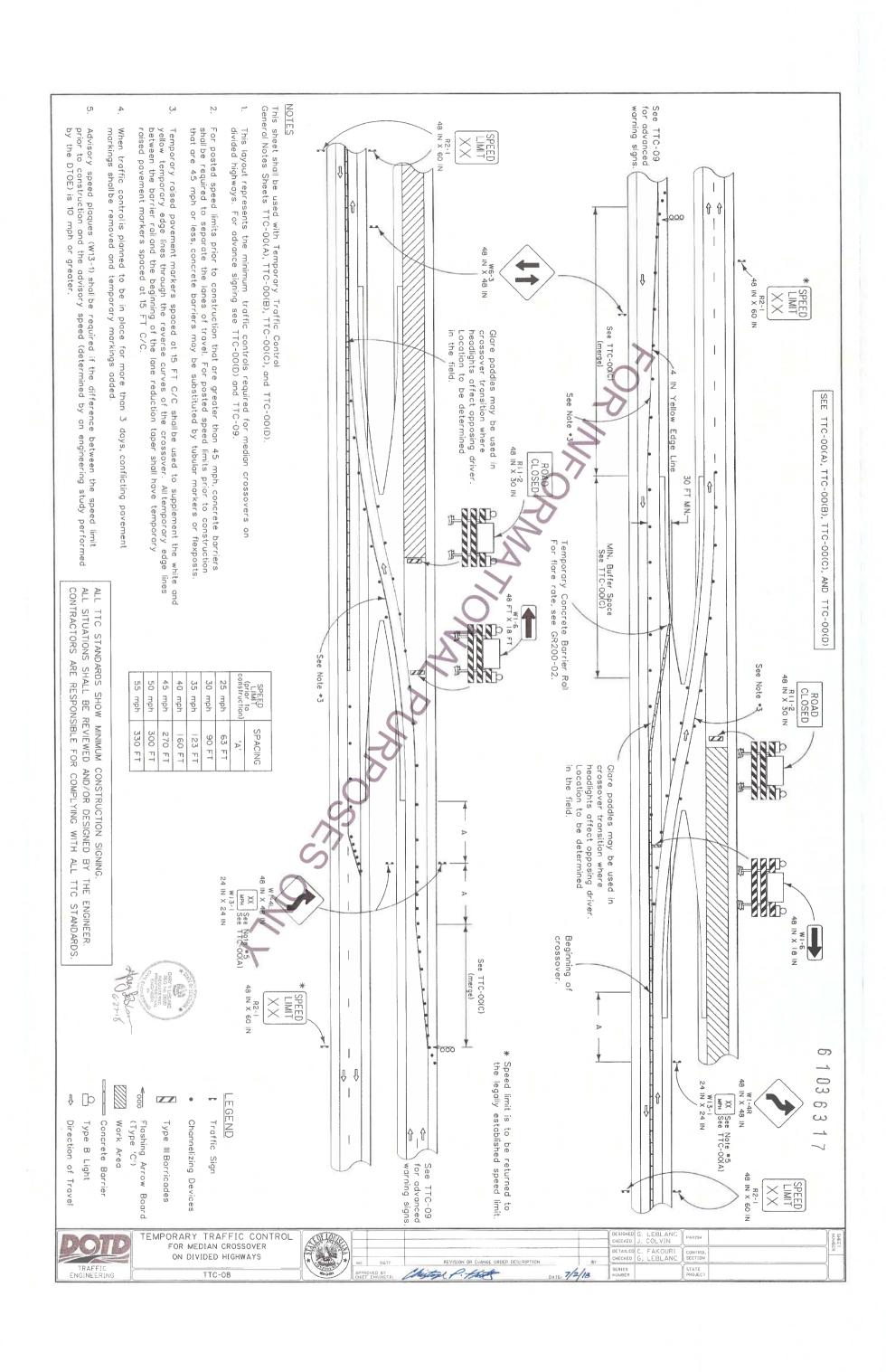


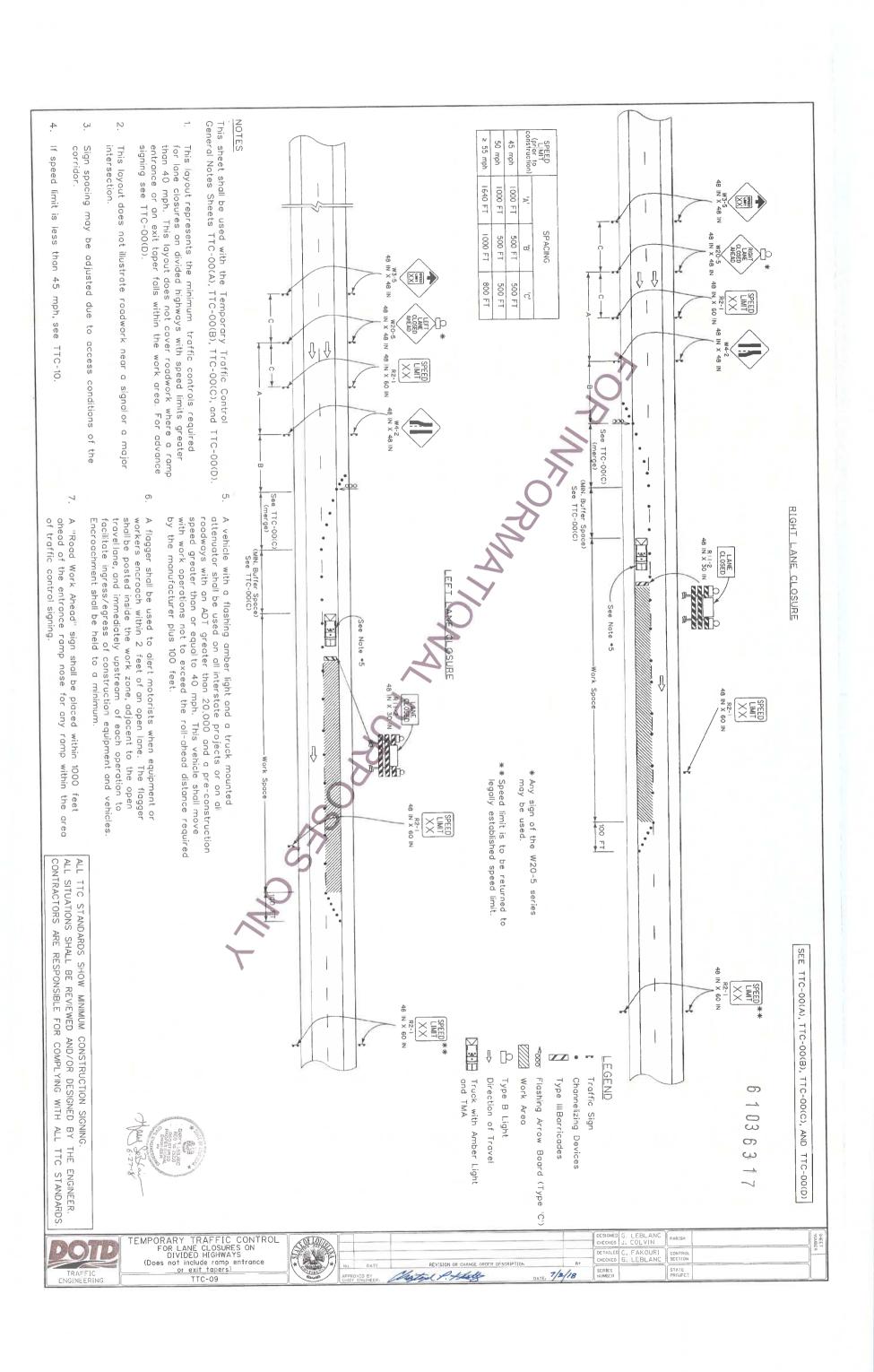


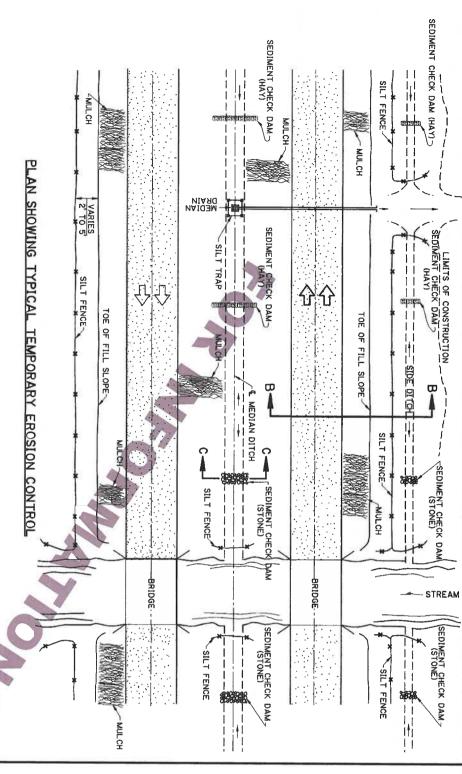








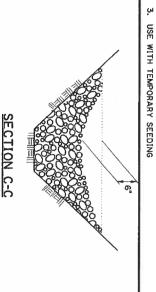




MULCHES

MULCHES ARE THE APPLICATION OF MATS OF MATERIAL PLACED ON THE SOIL SURFACE TO PREVENT EROSION BY PROTECTING THE SOIL SURFACE FROM RAINDROP IMPACT AND TO REDUCE THE VELOCITY OF OVERLAND FLOW. MULCHES CAN BE ORGANIC OR SYNTHETIC. MULCHES SHALL BE IN ACCORDANC WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. A FEW GUIDELINES FOR THE USE OF MULCHES ARE:

- USE ON CUT AND EMBANKMENT SLOPES WHICH HAVE NOT BEEN COMPLETED TO PLAN GRADE OR WHERE THE WEATHER OR SOIL CONDITIONS WILL NOT PERMIT COMPLETING THEM WITHIN A REASONABLE TIME
- USE ON CLEARED, GRUBBED, AND SCALPED AREAS WHERE SOIL EROSION IS LIKELY TO OCCUR



TEMPORARY SEDIMENT CHECK DAM (STONE)

PAY ITEM: TEMPORARY SEDIMENT CHECK DAM (STONE)

NOTES:
NO

SECTION B-B

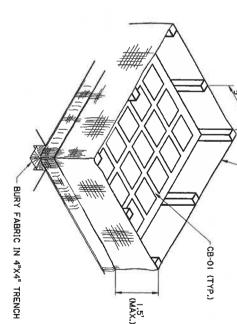
VARIES 2' TO 5'

SIDE DITCH

ROADWAY &

- USE IN SMALL OPEN CHANNELS WHICH DRAIN 10 ACRES OR LESS
- USE IN A TEMPORARY DITCH OR SWALE WHICH, BECAUSE OF THEIR SHORT LENGTH OF SERVICE, CANNOT RECEIVE A NON- ERODIBLE LINING
- USE IN PERMANENT DITCHES OR SWALES WHICH WILL NOT RECEIVE A PERMANENT LINING FOR AN EXTENDED PERIOD OF TIME
- DO NOT USE IN A LIVE STREAM
- USE IN TEMPORARY OR PERMANENT DITCHES OR SWALES WHICH NEED PROTECTION DURING THE ESTABLISHMENT OF GRASS LININGS
- FOR STONE SPECIFICATIONS, SEE PROJECT SPECIFICATIONS FOR RIPRAP, (CLASS 2 LB)

TEMPORARY SILT FENCE APPLICATION (FOR CONSTRUCTION DETAILS AND SPECIFICATIONS SEE SHEET 2 OF 2.)



SOMETRIC VIEW SHOWING GEOTEXTILE FABRIC

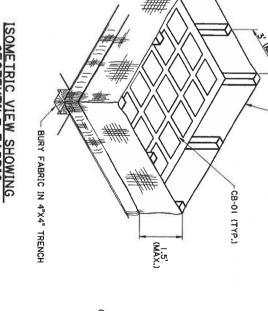
PAY ITEM: TEMPORARY HAY OR STRAW BALES

PLAN SHOWING HAY BALES

MH

BY

ANCHOR WITH TWO STAKES DRIVEN INTO THE GROUND

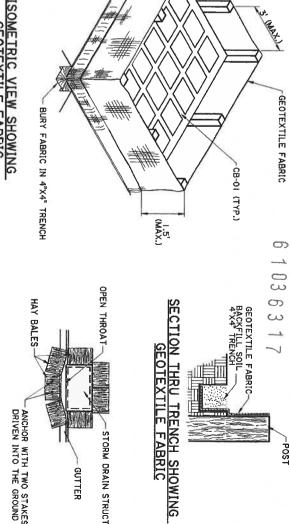


GEOTEXTILE FABRIC

_ ****

POST

(BACKFILL SOIL NOT SHOWN)



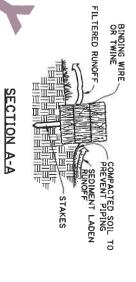
TEMPORARY INLET SILT TRAP

THE TEMPORARY DROP INLET SILT TRAP IS TO BE USED FOR SMALL DRAINAGE AREAS (LESS THAN I ACRE) WHERE THE STORM DRAIN IS FUNCTIONAL BEFORE THE AREA IS STABILIZED. THE TRAP CAN BE EITHER GEOTEXTILE FABRIC OR HAY BALES.

- THE GEOTEXTILE FABRIC SHALL CONFORM TO PROJECT SPECIFICATIONS FOR GEOTEXTILE FABRIC (CLASS 6).
- WOODEN STAKES SUPPORTING THE FA 2" X 4" WITH A MINIMUM LENGTH OF BE SPACED AROUND THE INLET AT A ABRIC SHALL BE 2" X 2" OR 3 FEET. THE STAKES SHALL MAXIMUM SPACING OF 3 FEET.
- THE HEIGHT OF THE FABRIC ABOVE THE INLET SHALL BE LIMITED TO 1.5 AND THE BOTTOM OF THE FABRIC SHALL BE BURIED IN A TRENCH APPROXIMATELY 4" WIDE BY 4" DEEP. THE FABRIC SHALL BE STAPLED TO THE POST WITH 1/2" STAPLES.
- THE TRAP SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM. THE SEDIMENT SHOULD BE REMOVED AND EACH STAKE SHOULD BE FIRMLY IN THE GROUND.
- HAY BALES SHALL BE PLACED SO THAT THE BINDING WIRE OR TWINE IS NOT IN CONTACT WITH THE GROUND.



ELEVATION



TEMPORARY SEDIMENT CHECK DAM (HAY) PAY ITEM: TEMPORARY SEDIMENT CHECK DAM (HAY)

HAY BALE BARRIER IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A DUW OF ENTRENCHED AND ANCHORED BALES OF STRAW OR HAY. THE HAY BALE ARRIER IS ALSO USED AS A CHECK DAM TO REDUCE THE VELOCITY IN SMALL ITCHES OR SWALES. THE HAY BALES SHALL BE IN ACCORDANCE WITH YOUECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL.

FEW BASIC DESIGN GUIDELINES FOR THE USE OF A HAY BALE BARRIER ARE: USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION

ONLY USE WHERE THE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS USE IN MINOR SWALES OR DITCHES WHERE THE MAXIMUM DRAINAGE AREA IS 2 ACRES

DO NOT USE IN LIVE STREAMS OR IN SWAI POSSIBILITY OF A WASHOUT

LES OR DITCHES WHERE THERE IS A

DOTO HYDRAULICS SECTION

TEMPORARY EROSION CONTROL DETAILS EC-OI



DATE

10-1-08 REMOVE SPECIFIC PAY ITEM NOS., GENERAL REVISIONS REVISION DESCRIPTION APPROVED BY CHIEF ENGINEER: WW-H- Tensol

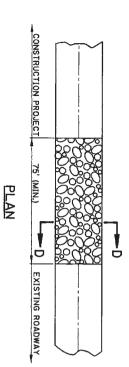
DATE: 10. 1.08

CHECKED KAJ DATE |-14-94 SHEET | OF 2

STORM DRAIN STRUCTURE DESIGNED JCM CHECKED PARISH FEUERAL PROJECT STATE

GUTTER

'n



GEOTEXTILE FABRIC

1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.

STAPLE WIRE FENCING TO THE POSTS.

e. 10, 10, 8, 10

SECTION D-D

TEMPORARY STONE CONSTRUCTION ENTRANCE PAY ITEM:

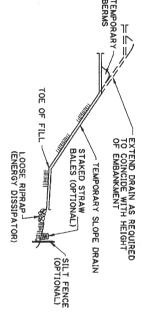
RARY STONE CONSTRUCTION ENTRANCE

TEMPORARY STONE CONSTRUCTION ENTRANCE AND/OR WASH RACK

A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS A THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS. IF THE ACTION PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN TENTERS A PUBLIC ROAD. A FEW BASIC DESIGN GUIDELINES FOR THE USE

- THE STONE LAYER MUST BE AT LEAST 6 INCHES THICK.
- THE STONE SHALL CONFORM TO PROJECT SPECIFICATIONS FOR RIPRAP (CLASS 2 LB).
- THE LENGTH OF THE PAD MUST BE A LEAST 75 FEET AND IT MUST EXTEND THE FULL WIDTH OF INGRESS AND EGRESS.
- A GEOTEXTILE FABRIC UNDERLINER IS REQUIRED. THE GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR GEOTEXTILE FABRIC (CLASS D).
- IF A WASH RACK IS NECESSARY, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE.

STAKED STRAW BALES (OPTIONAL) (ENERGY DISSIPATOR) TEMPORARY SLOPE DRAIN TEMPORARY BERMS -ROADWAY € TOE OF FILL SLOPE SHOULDER



BACKFILL SOIL 4"X4" TRENCH

FILTER FABRIC

WIRE

EXTENSION OF FABRIC INTO THE TRENCH.

ELEVATION

TEMPORARY SLOPE DRAIN

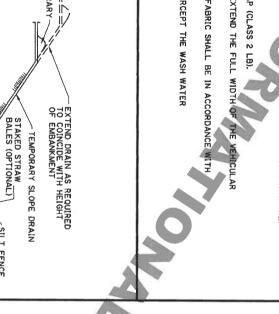
SILT FENCE (OPTIONAL)

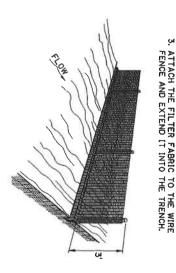
PLAN

A TEMPORARY SLOPE DRAIN IS A DEVICE USED TO CARRY WATER FROM THE CONSTRUCTION WORK AREA TO A LOWER ELEVATION. SLOPE DRAINS MAY BE PLASTIC SHEET, METAL OR PLASTIC PIPE, STONE GUTTERS, FIBER MATS, OR CONCRETE OR ASPHALT DITCHES. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A TEMPORARY SLOPE DRAIN ARE:

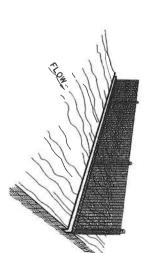
- THE SPACING OF THE SLOPE DRAINS VARIES WITH THE ROAD GRADE. FOR GRADES: 0.0% 2.0% USE 500' SPACING CREATER THAN 5.0% USE 100' SPACING

- SLOPE DRAIN MATERIAL: SMOOTH PIPE 8" MINIMUM 3 MILS THICK MIN.
 CORRUGATED PIPE 12" MINIMUM
 PLASTIC SHEETING 4" WIDE MINIMUM
 PLASTIC SHEETING 3 MILS THICK MIN.
- PLASTIC SHEETING CAN BE STAKED DOWN OR WEIGHTED WITH ROCKS OR LOGS. THE AREA UNDER THE SHEETING SHOULD BE SHAPED TO PROVIDE AN ADEQUATE CHANNEL.
- THE OUTLET END SHOULD BE PROTECTED OR HAVE SOME MEANS OF DISSIPATING ENERGY. THE FLOW SHOULD BE DIRECTED THROUGH A SEDIMENT TRAP SUCH AS A SILT FENCE, HAY BALES, OR OTHER APPROVED SEDIMENT CONTROL DEVICES
- TO INSURE PROPER OPERATION, TEMPORARY SLOPE DRAINS SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM, FOR CLOGGING OR DISPLACEMENT. EROSION AT THE OUTLET SHOULD BE CHECKED AND THE SILT TRAPS CLEANED IF NECESSARY.

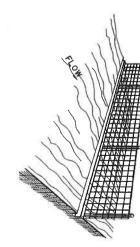




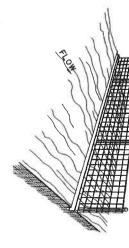




4. BACKFILL AND COMPACT EXCAVATED SOIL.



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CONSTRUCTION OF TEMPORARY SILT FENCING

WILL BE CONSTRUCTED ACCO SELF SUPPORTED SILT FENCE ANUFACTURERS SPECIFICATIONS.)

SILT FENCING IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC SUPPORTED BY POSTS AND STRETCHED ACROSS AN AREA TO INTERCENT AND DETAIN SMALL AMOUNTS OF SEDIMENT. THE SILT FENCING SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. A FEW BASIC GUIDELINES FOR THE USE OF SILT FENCING ARE:

- USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION USE WHERE THE MAXIMUM DRAINAGE AREA BEHIND THE OF SILT FENCE LENGTH SILT FENCE IS 1/4 ACRE PER 100 FEET
- USE WHERE THE MAXIMUM SLOPE LENGTH BEHIND THE BARRIER IS 100 FEET
- USE THERE THE MAXIMUM GRADIENT BEHIND THE BARRIER IS 2:1
- DO NOT USE SILT FENCES IN LIVE STREAMS OR IN DITCHES OR SWALES WHERE FLOWS EXCEED ONE CUBIC FOOT PER SECOND



TEMPORARY EROSION CONTROL DETAILS EC-01

PARISH

CHECKED JCM DETAILED KAJ 10-1-08 REMOVE SPECIFIC PAY ITEM NOS., GENERAL REVISIONS MH DATE APPROVED BY CHIEF ENGINEER: Will H- Temple DATE 1-14-94 SHEET 2 OF 2 STATE DATE:/0. / -08